

JOINT
PUBLIC NOTICE

CHARLESTON DISTRICT, CORPS OF ENGINEERS

69A Hagood Avenue

Charleston, South Carolina 29403-5107

and

THE S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Office of Environmental Quality Control

Water Quality Certification and Wetlands Programs Section

2600 Bull Street

Columbia, South Carolina 29201

REGULATORY DIVISION

03 March 2006

Refer to: P/N #2006-5W-031

Pursuant to Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1341), an application has been submitted to the Department of the Army and the South Carolina Department of Health and Environmental Control by

WAL-MART REAL ESTATE BUSINESS TRUST
c/o B. MATTHEW COX
KIMBLEY-HORN & ASSOCIATES, INC.
4651 CHARLOTTE PARK DRIVE
SUITE 300
CHARLOTTE, NORTH CAROLINA 28217

for a permit to place fill material in waters of the United States, including freshwater wetlands, in and adjacent to

AN UNNAMED TRIBUTARY TO SIX MILE CREEK

at a location generally east of U.S. Highway 521, north of its intersection with S.C. Highway 160, near Pleasant Valley, Lancaster County, South Carolina. (Latitude 35.011059°N, Longitude 80.850115°W)

In order to give all interested parties an opportunity to express their views

N O T I C E

is hereby given that written statements regarding the proposed work will be received by both of the above mentioned offices until

12 O'CLOCK NOON, MONDAY, 03 April 2006

from those interested in the activity and whose interests may be affected by the proposed work.

The proposed work consists of placing fill material in 0.71 acre of waters of the United States, including freshwater wetlands, specifically, 0.11 acre of freshwater wetlands and 1,516 linear feet of intermittent and perennial streams. The applicant proposes to relocate the stream and associated wetlands on-site by the creation, restoration, enhancement and preservation of 0.03 acre of freshwater wetlands and 1627 linear feet of perennial stream. The applicant's mitigation proposal includes off-site preservation of 48 acres adjacent to Gills Creek and 88 acres adjacent to Flat Creek. As stated by the applicant, the purpose of the proposed work to place fill in waters of the United States, including freshwater wetlands, is to construct a commercial business center and its associated infrastructure, in an area characterized by rapid economic growth and development.

REGULATORY DIVISION
Refer to: P/N #2006-5W-031

03 March 2006

NOTE: Plans depicting the work described in this notice are available and will be provided, upon receipt of a written request, to anyone that is interested in obtaining a copy of the plans for the specific project. The request must identify the project of interest by public notice number and a self-addressed stamped envelope must also be provided for mailing the drawings to you. Your request for drawings should be addressed to the

**U.S. Army Corps of Engineers
ATTN: REGULATORY DIVISION
69A Hagood Avenue
Charleston, South Carolina 29403-5107**

The District Engineer has concluded that the discharges associated with this project, both direct and indirect, should be reviewed by the South Carolina Department of Health and Environmental Control in accordance with provisions of Section 401 of the Clean Water Act. As such, this notice constitutes a request, on behalf of the applicant, for certification that this project will comply with applicable effluent limitations and water quality standards. The District Engineer will not process this application to a conclusion until such certification is received. The applicant is hereby advised that supplemental information may be required by the State to facilitate the review. Persons wishing to comment or object to Water Quality Certification must submit all comments in writing to the S.C. Department of Health and Environmental Control at the above address within thirty (30) days of the date of this notice.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. Implementation of the proposed project would impact 0.71 acre of freshwater habitat upstream of estuarine substrates and emergent wetlands utilized by various life stages of species comprising the red drum, shrimp, and snapper-grouper management complexes. Our initial determination is that the proposed action would not have a substantial individual or cumulative adverse impact on EFH or fisheries managed by the South Atlantic Fishery Management Council and the National Marine Fisheries Service (NMFS). Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

The District Engineer has consulted the most recently available information and has determined that the project will have no effect on any Federally endangered, threatened, or proposed species and will not result in the destruction or adverse modification of designated or proposed critical habitat. This public notice serves as a request to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service for any additional information they may have on whether any listed or proposed endangered or threatened species or designated or proposed critical habitat may be present in the area which would be affected by the activity, pursuant to Section 7(c) of the Endangered Species Act of 1973 (as amended).

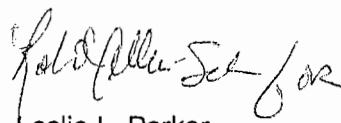
The District Engineer has consulted the latest published version of the National Register of Historic Places for the presence or absence of registered properties, or properties listed as being eligible for inclusion therein, and this worksite is not included as a registered property or property listed as being eligible for inclusion in the Register. Further, the District Engineer has been provided with a cultural resource investigation, and he is aware of the presence of such resources which may warrant further study or may be eligible for nomination to the National Register. Pursuant to Section 106 of the National Historic Preservation Act of 1966 (as amended), the final determination relative to project impacts to such resources will be reviewed and coordination with the S. C. Department of Archives & History, State Historic Preservation Office. Presently unknown archaeological, scientific, prehistorical, or historical data may be lost or destroyed by the work to be accomplished under the requested permit.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state, with particularity, the reasons for holding a public hearing.

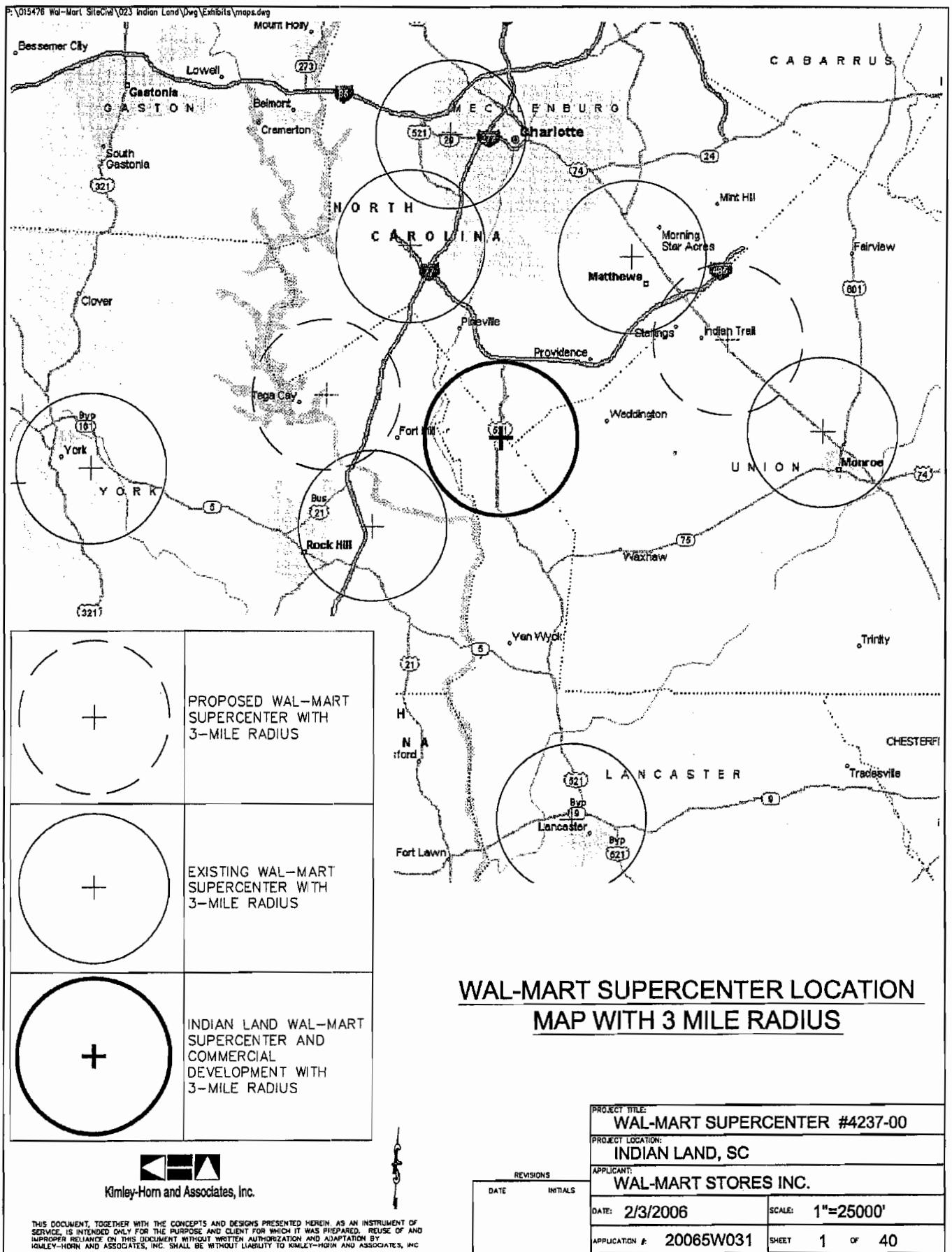
The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the activity on the public interest and will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency (EPA), under authority of Section 404(b) of the Clean Water Act and, as appropriate, the criteria established under authority of Section 102 of the Marine Protection, Research and Sanctuaries Act of 1972, as amended. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the project must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the project will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. A permit will be granted unless the District Engineer determines that it would be contrary to the public interest. In cases of conflicting property rights, the Corps of Engineers cannot undertake to adjudicate rival claims.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this project. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

If there are any questions concerning this public notice, please contact me at 803-253-3444.



Leslie L. Parker
Project Manager
Regulatory Division
U.S. Army Corps of Engineers





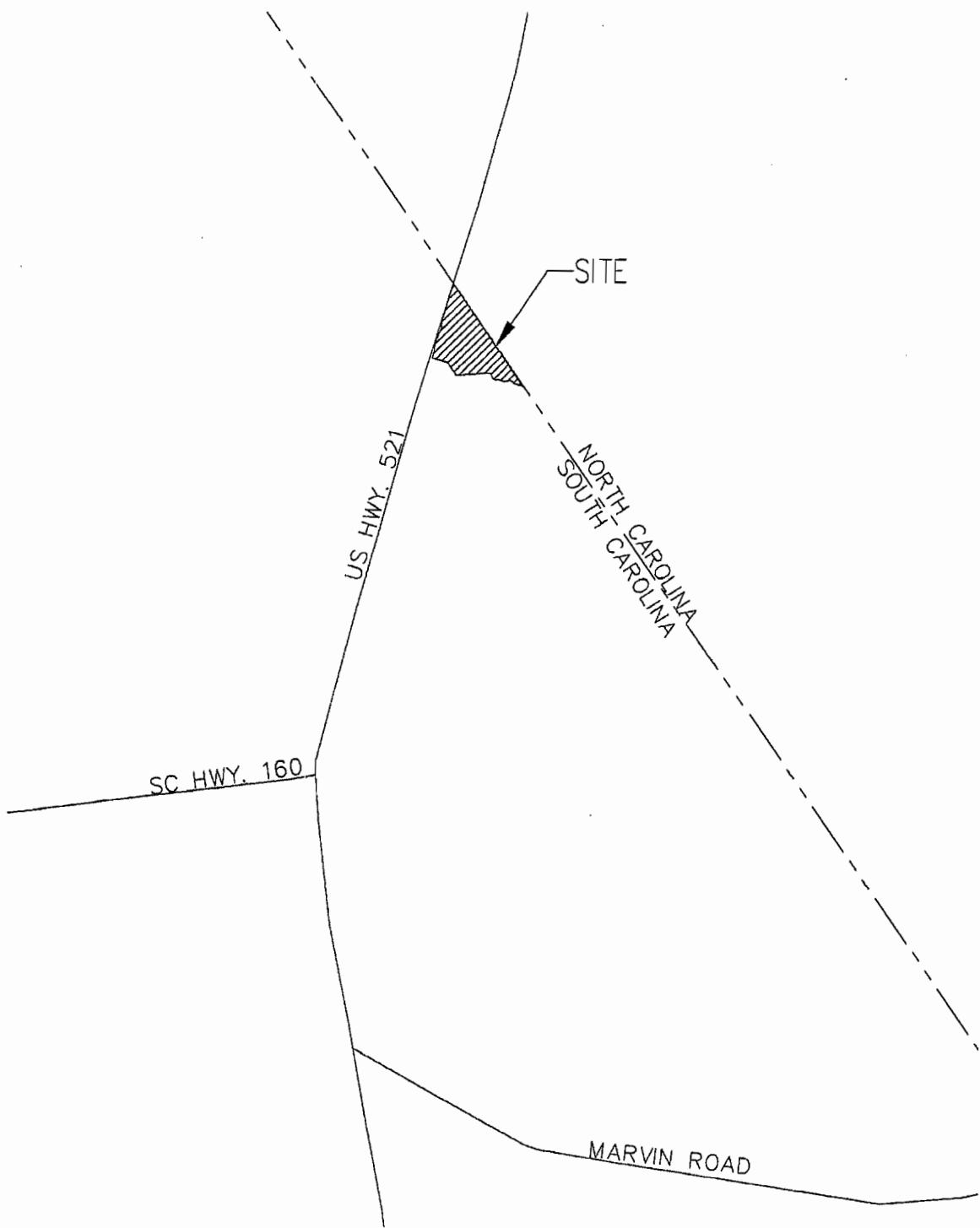
MACRO LOCATION MAP



Kimley-Horn and Associates, Inc.

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REVISIONS	
DATE	INITIALS
DATE: 2/3/2006	SCALE: N.T.S.
APPLICATION #: 20065W031	SHEET 2 of 40



MICRO LOCATION MAP



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REVISIONS	
DATE	INITIALS
DATE: 2/3/2006	SCALE: N.T.S.
APPLICATION #: 20065W031	SHEET 3 OF 40

PROJECT TITLE: WAL-MART SUPERCENTER #4237-00

PROJECT LOCATION: INDIAN LAND, SC

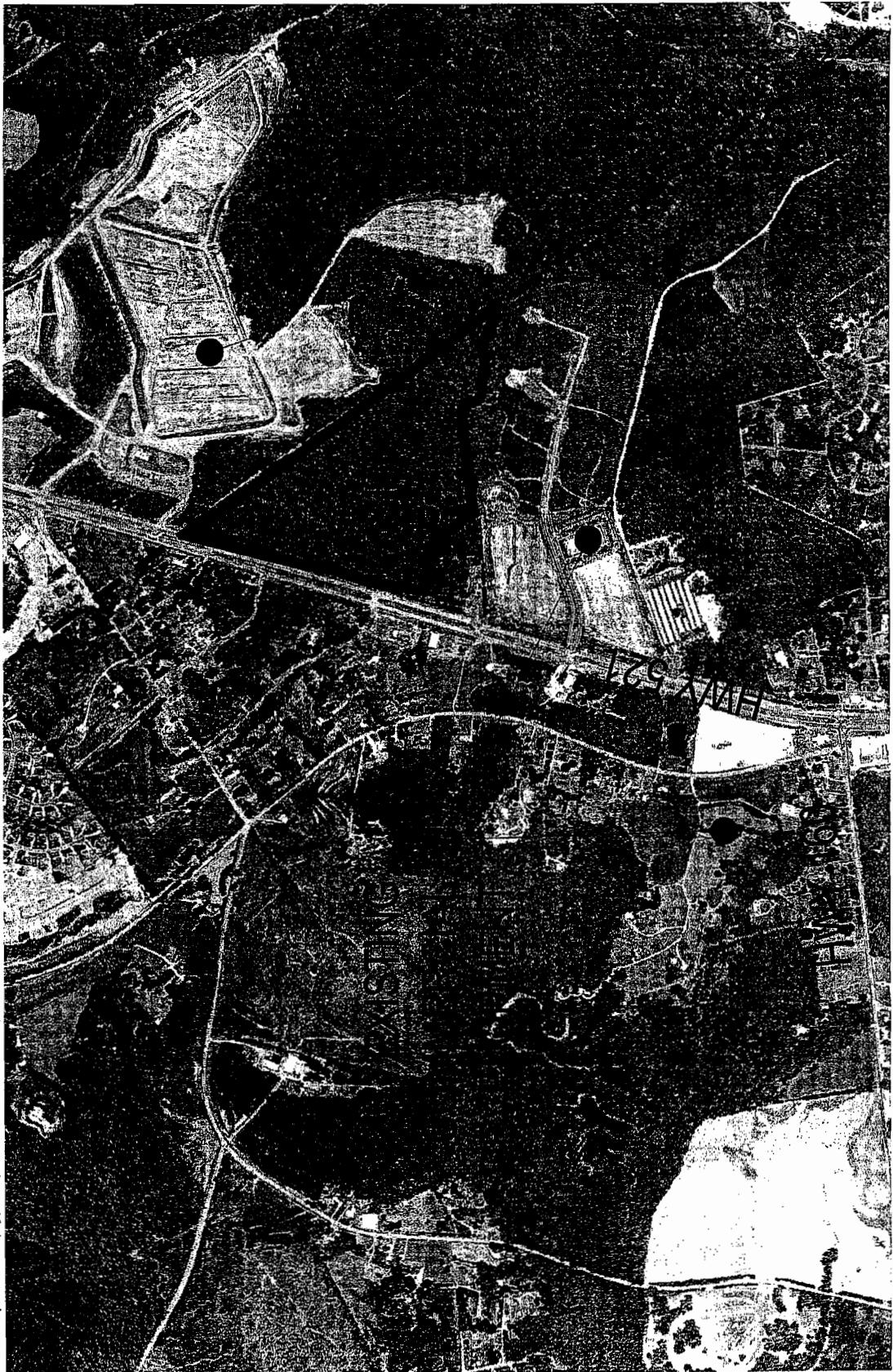
APPLICANT: WAL-MART STORES INC.

DATE: 2/3/2006

APPLICATION #: 20065W031

SCALE: N.T.S.

SHEET 3 OF 40



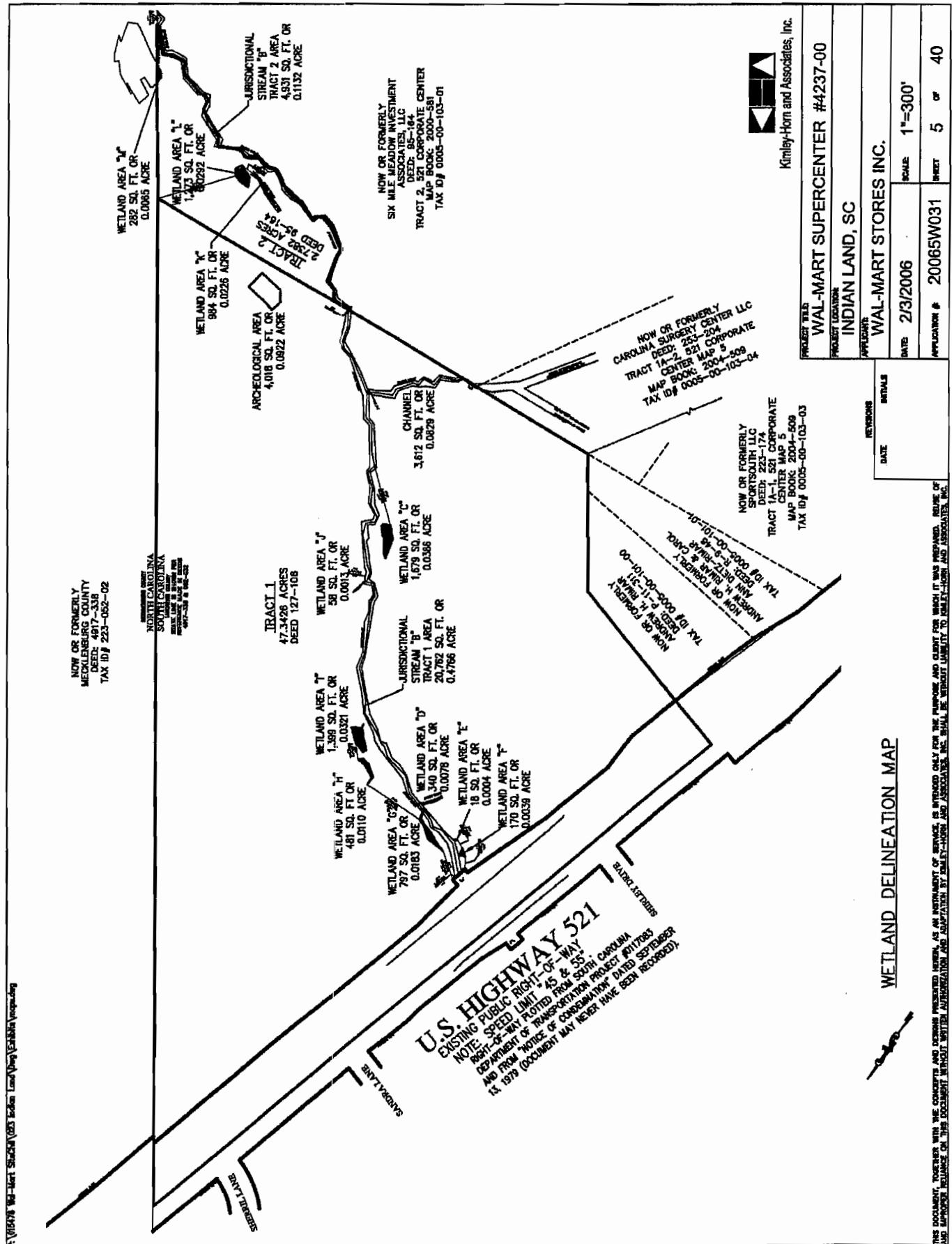
PROJECT TITLE:	WAL-MART SUPERCENTER #4237-00		
PROJECT LOCATION:	INDIAN LAND, SC		
APPLICANT:	WAL-MART STORES INC.		
DATE:	2/3/2006	SCALE:	1"=1000'
APPLICATION #:	20065W031	HEET	4 OF 40

AERIAL VICINITY MAP



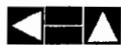
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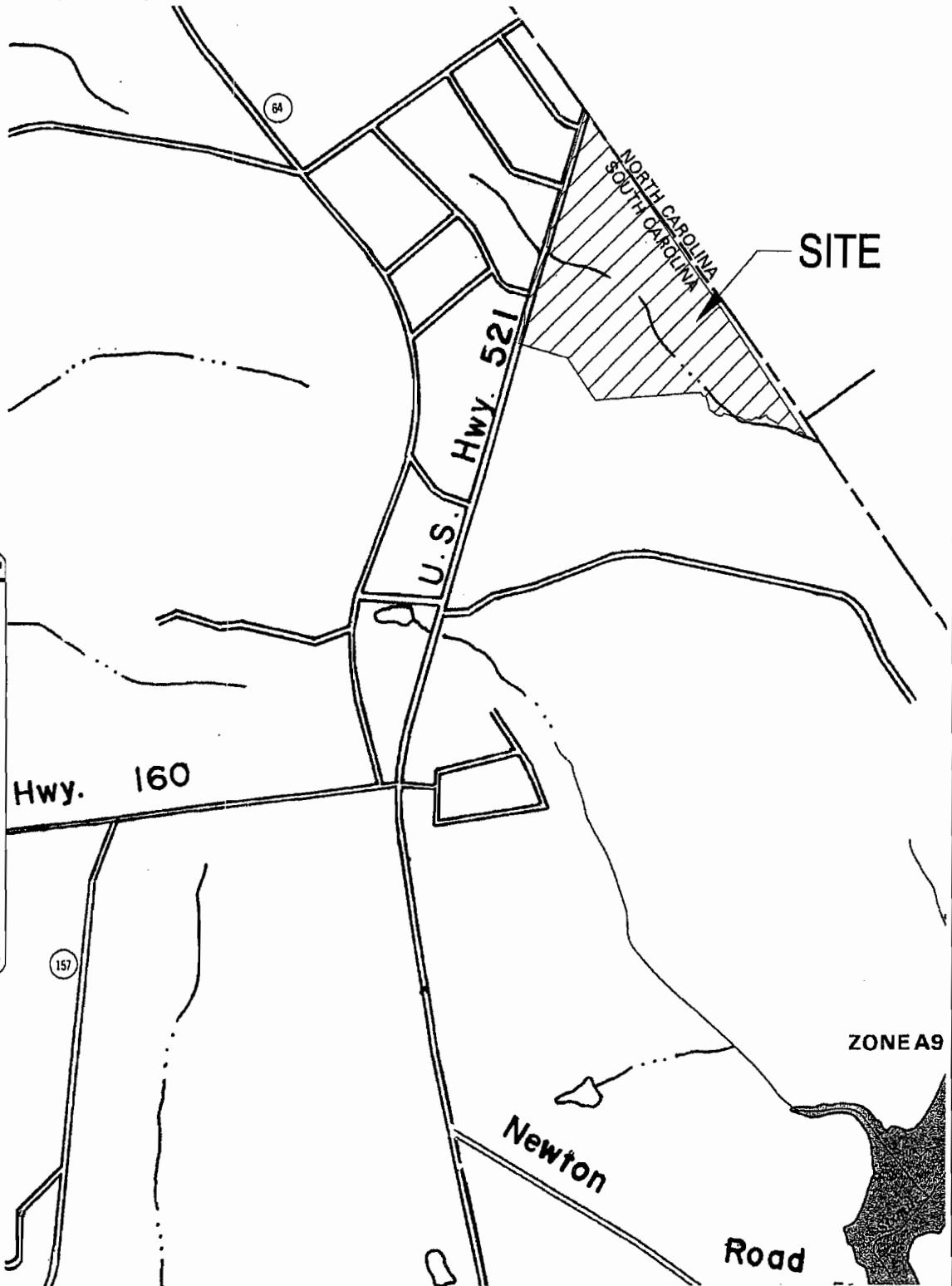
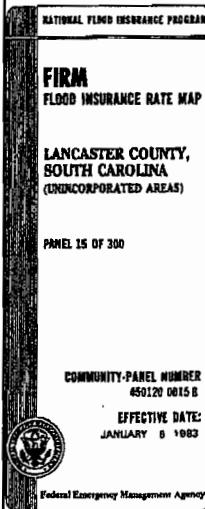


Kimley-Horn and Associates, Inc.

SOILS MAP

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REVISIONS		DATE	INITIALS	PROJECT TITLE: WAL-MART SUPERCENTER #4327-00		
				PROJECT LOCATION: INDIAN LAND, SC		
		APPLICANT: WAL-MART STORES INC.				
		DATE: 2/3/2006		SCALE: 1"=2500'		
				APPLICATION #: 20065W031	SHEET 6 OF 40	



FEMA FLOOD MAP

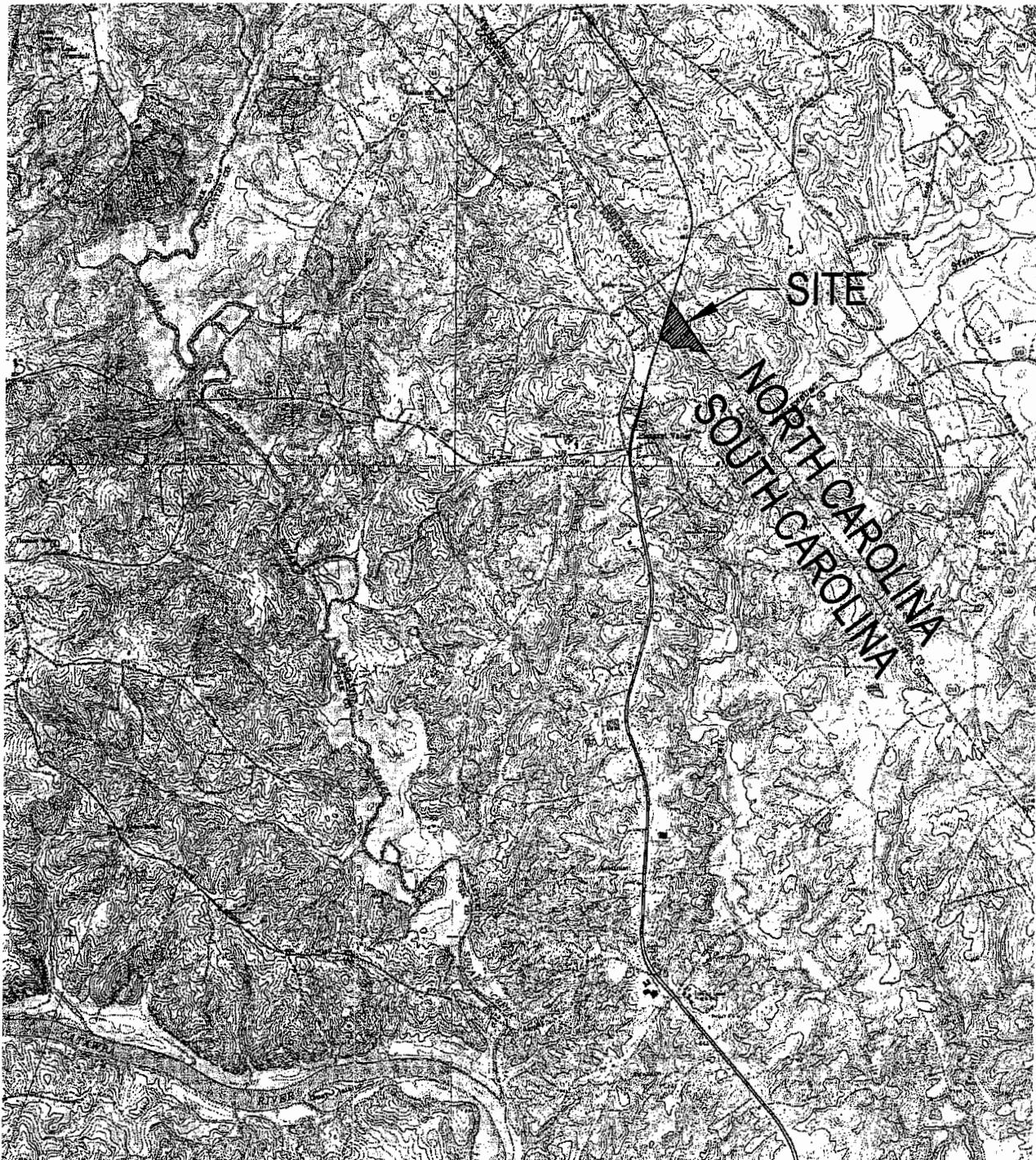


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REVISIONS	DATE	INITIALS
	2/3/2006	

PROJECT TITLE:	WAL-MART SUPERCENTER #4237-00	
PROJECT LOCATION:	INDIAN LAND, SC	
APPLICANT:	WAL-MART STORES INC.	
DATE:	2/3/2006	SCALE: 1"=1000'
APPLICATION #:	20065W031	SHEET 7 OF 40



MACRO USGS QUAD MAP
CATAWBA NE QUAD
1993


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REVISIONS		PROJECT TITLE	
DATE	INITIALS	WAL-MART SUPERCENTER #4327-00	
PROJECT LOCATION			
INDIAN LAND, SC			APPLICANT:
WAL-MART STORES INC.			DATE: 2/3/2006
			SCALE: 1"=6000'
APPLICATION #: 20065W031			SHEET 8 of 40

LATITUDE AND LONGITUDE

35.0130°N, 80.8518°W
 35° 00' 47"N, 80° 51' 06"W

MICRO USGS QUAD MAP
CATAWBA NE QUAD

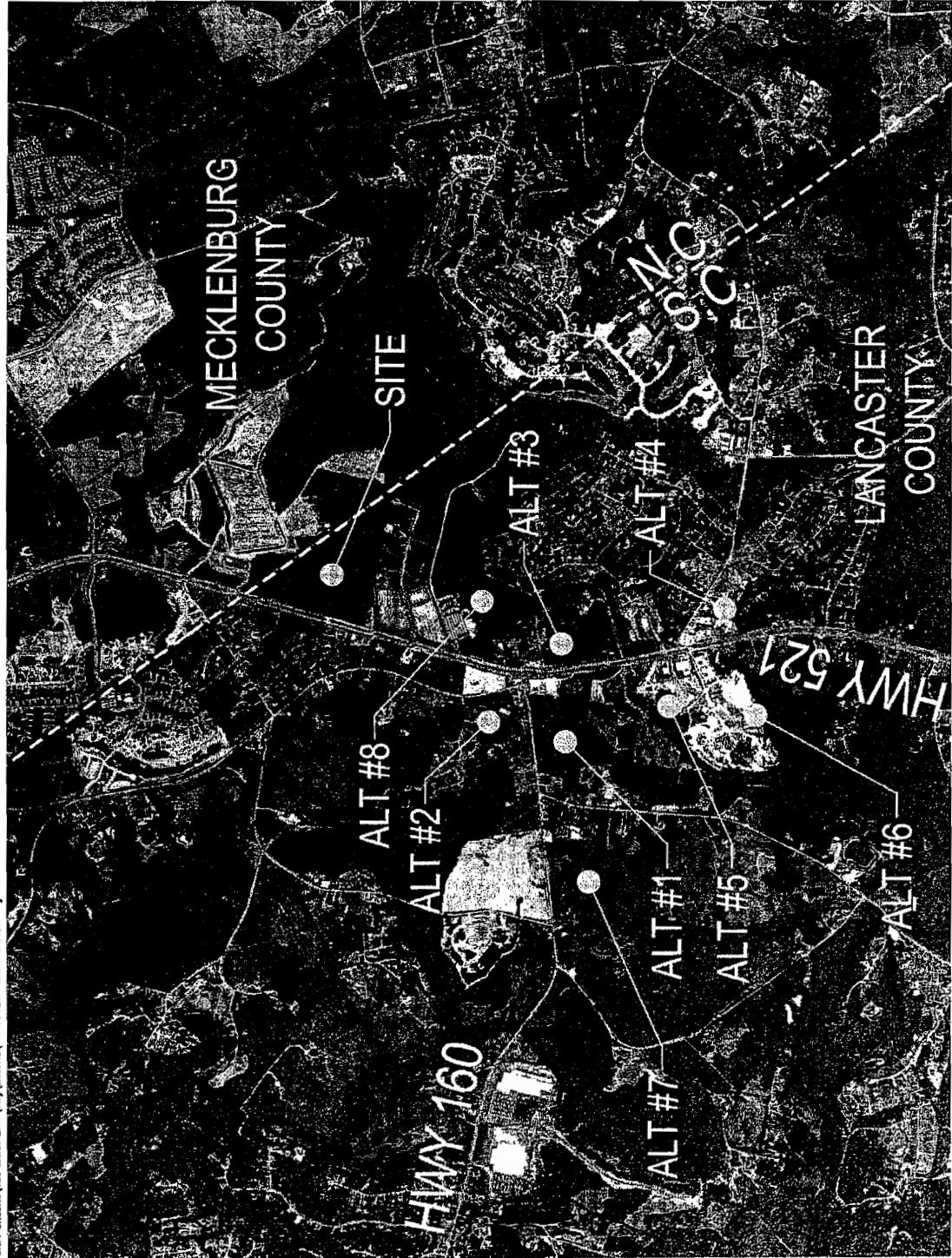
1993



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 CONTRACT, IS INTENDED ONLY FOR THE PURPOSE AND CREDIT FOR WHICH IT WAS PREPARED. USE OF AND
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 KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

REVISIONS	
DATE	INITIALS
DATE: 2/3/2006	SCALE: 1"=4000'
APPLICATION #: 20065W031	sheet 9 of 40

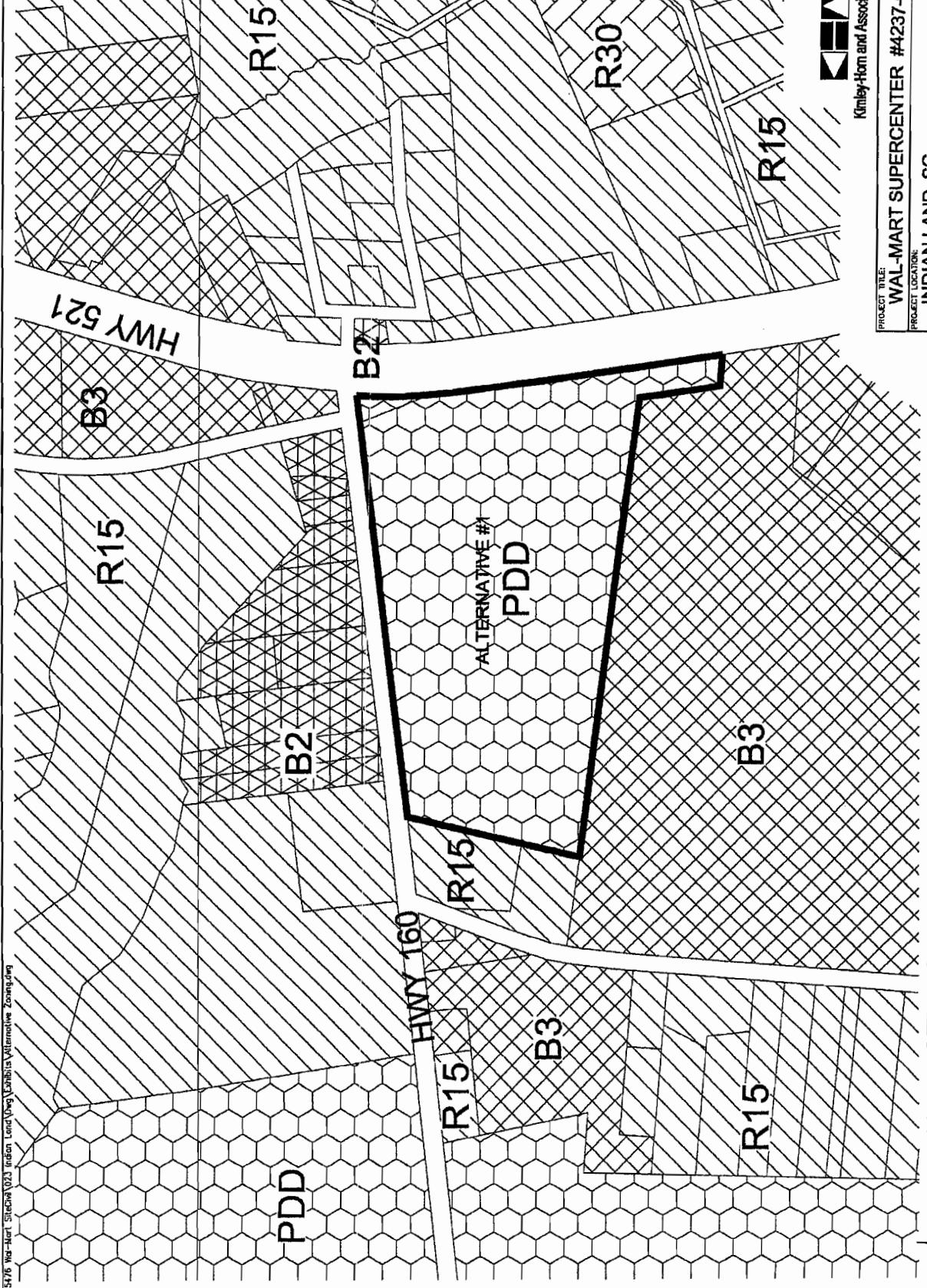


- V015476 Wrd-Mart SiteC:\w\023 Indian Land\Img\Exhibits\015476023-AERIAL EXHIBIT.dwg

LOCATION OF ALTERNATIVE SITE LOCATIONS

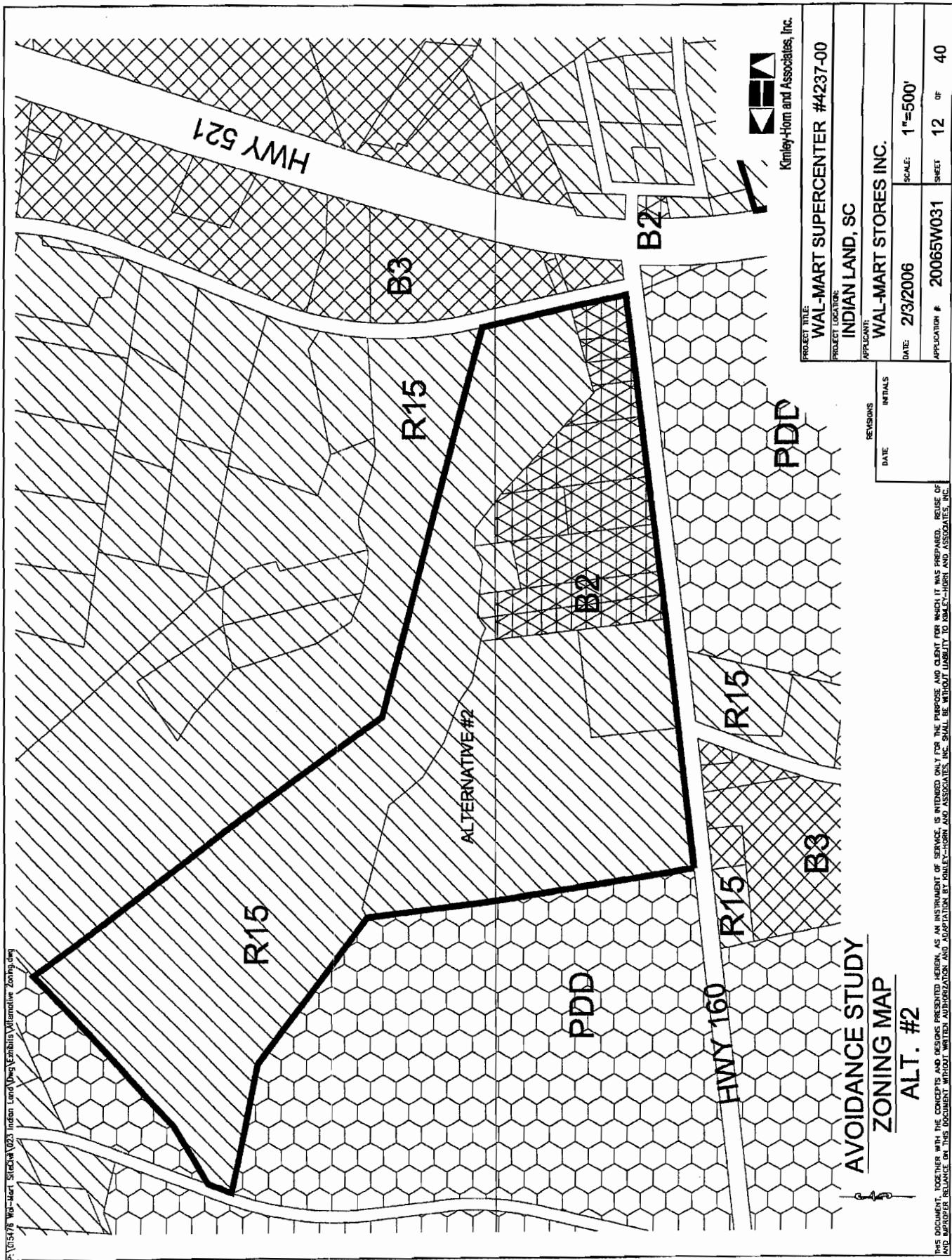
PROJECT TITLE:	WAL-MART SUPERCENTER #4237-00		
PROJECT LOCATION:	INDIAN LAND, SC		
APPLICANT:	WAL-MART STORES INC.		
DATE:	2/3/2006		
APPLICATION #:	20065W031		
SCALE:	1"=2500'		
SHEET	10	OF	40
REVISIONS:	INITIALS		
DATE			

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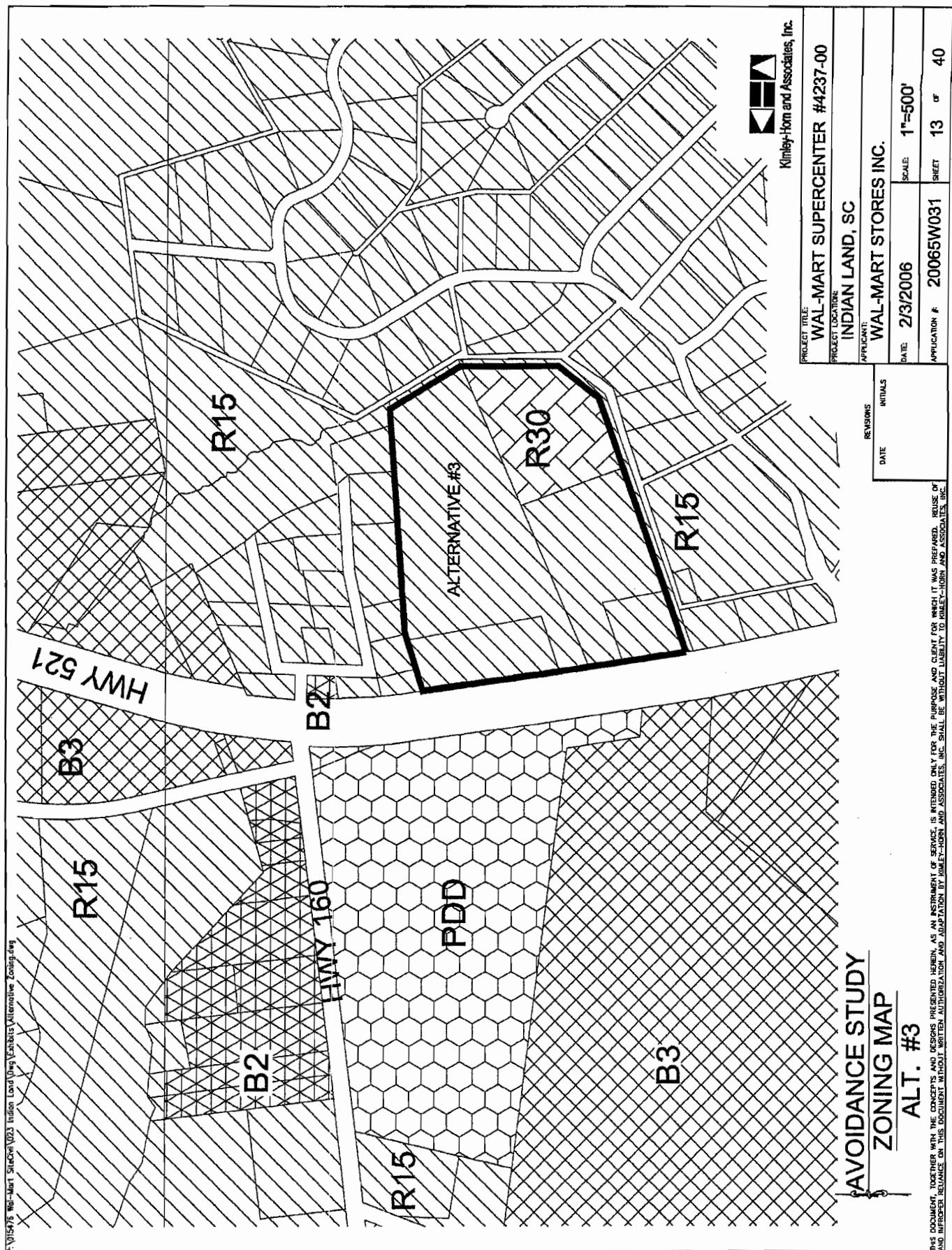


<input checked="" type="checkbox"/>	Kimley-Horn and Associates, Inc.
PROJECT TITLE: WAL-MART SUPERCENTER #4237-00	
PROJECT LOCATION: INDIAN LAND, SC	
APPLICANT: WAL-MART STORES INC.	
REVISIONS	INITIALS
DATE:	2/23/2006
SCALE:	1"=500'
APPLICATION #: 2006SW031	HEET 11 of 40

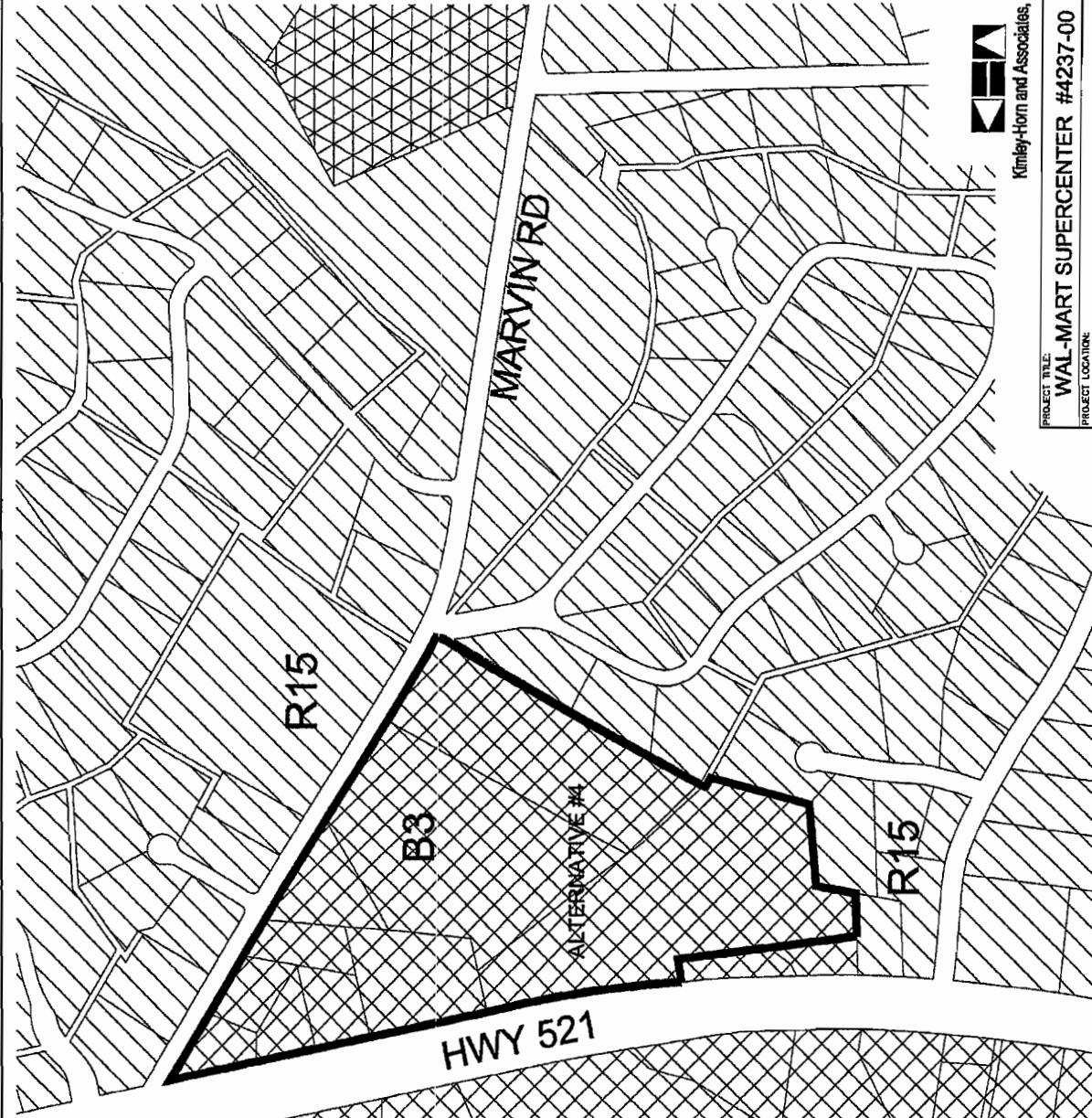
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AVOIDANCE STUDY
ZONING MAP

ALT. #4

PROJECT TITLE: WAL-MART SUPERCENTER #4237-00

PROJECT LOCATION: INDIAN LAND, SC

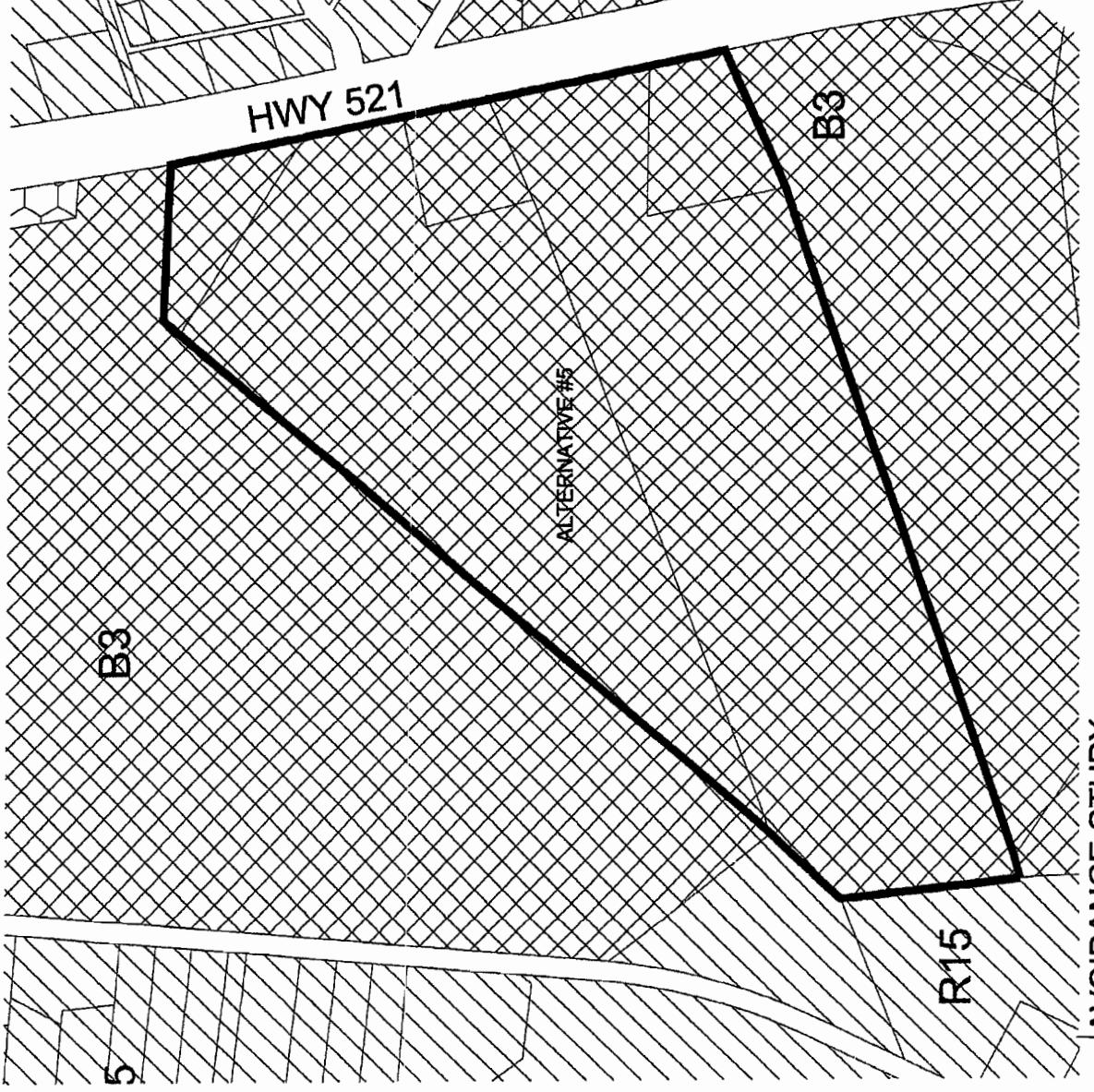
APPLICANT: WAL-MART STORES INC.

REVISIONS
INITIALS

DATE
2/3/2006

SCALE: 1"=500'

APPLICATION #: 20065W031 SHEET 14 or 40



AVOIDANCE STUDY
ZONING MAP

ALT. #5

B3

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B3



Kimley-Horn and Associates, Inc.

PROJECT TITLE:
WAL-MART SUPERCENTER #4237-00

PROJECT LOCATION:

INDIAN LAND, SC

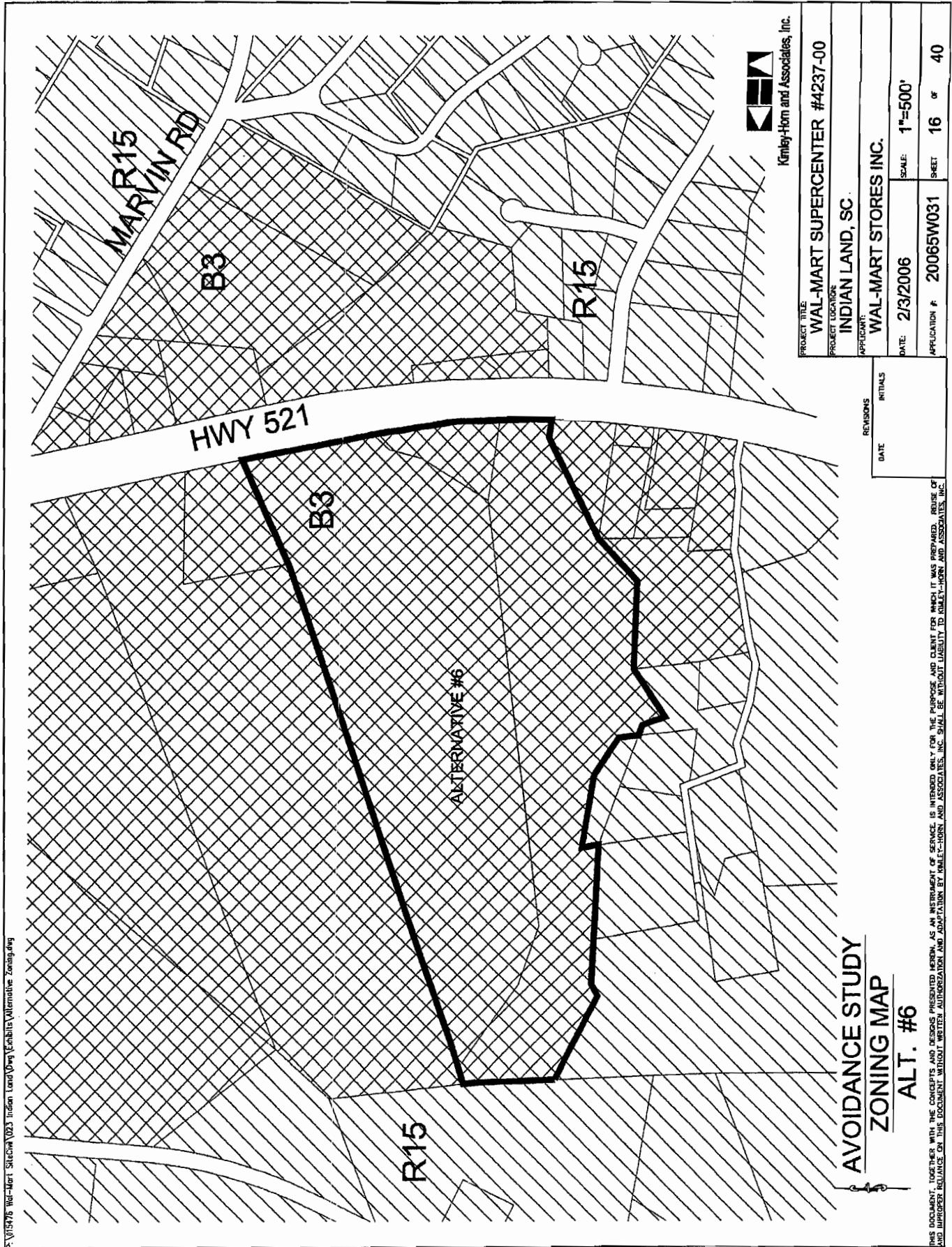
APPLICANT:

WAL-MART STORES INC.

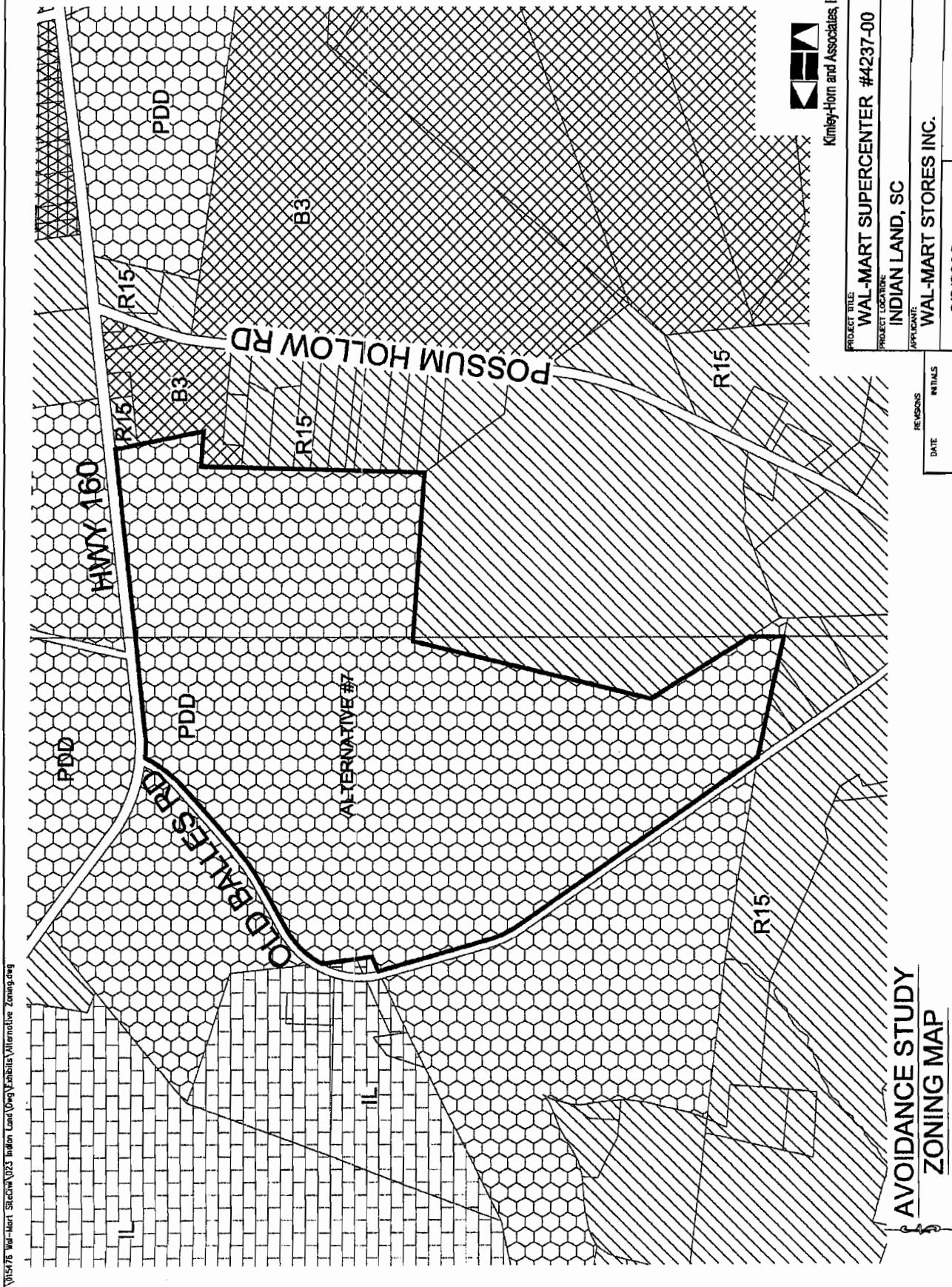
REVISIONS
INITIALS

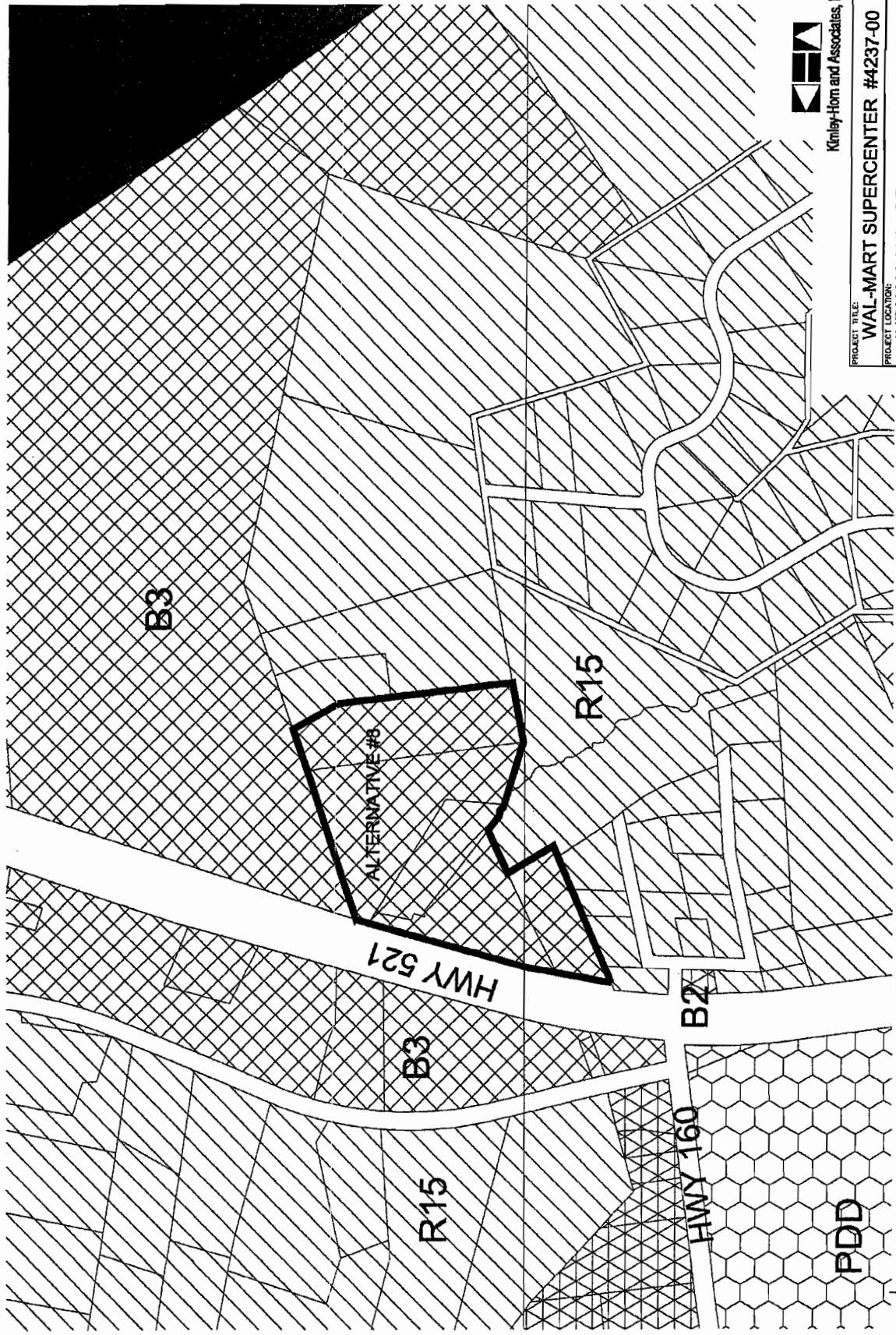
DATE

DATE: 2/3/2006
APPLICATION #: 20065W031
SCALE: 1"=500'
SHEET 15 OF 40



015476 Vol-Wat Site Civil\023 Indian Land\dwg\Exhibits\Alternative Zoning.dwg





AVOIDANCE STUDY
ZONING MAP

ALT. #8

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	Kirkley-Horn and Associates, Inc.
PROJECT TITLE:	WAL-MART SUPERCENTER #4237-00
PROJECT LOCATION:	INDIAN LAND, SC
APPLICANT:	WAL-MART STORES INC.
REVISIONS	
DATE	
INITIALS	
SCALE:	1"=500'
DATE:	2/3/2006
APPLICATION #:	20065W031
SHEET	18 of 40

Digitized by srujanika@gmail.com

AVOIDANCE STUDY
ZONING MAP

ALT. #9



Kimley-Horn and Associates, Inc.

PROJECT TITLE WAL-MART SUPERCENTER #4237-00

DIRECT LOCATION: INDIAN AND EC

INDIAN LAND, SC
APPLICANT:
WAL-MART STORES INC.

DATE: 2/3/2006 SCALE: 1"=500'

REVISIONS

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WAL-MART PARKING DATA

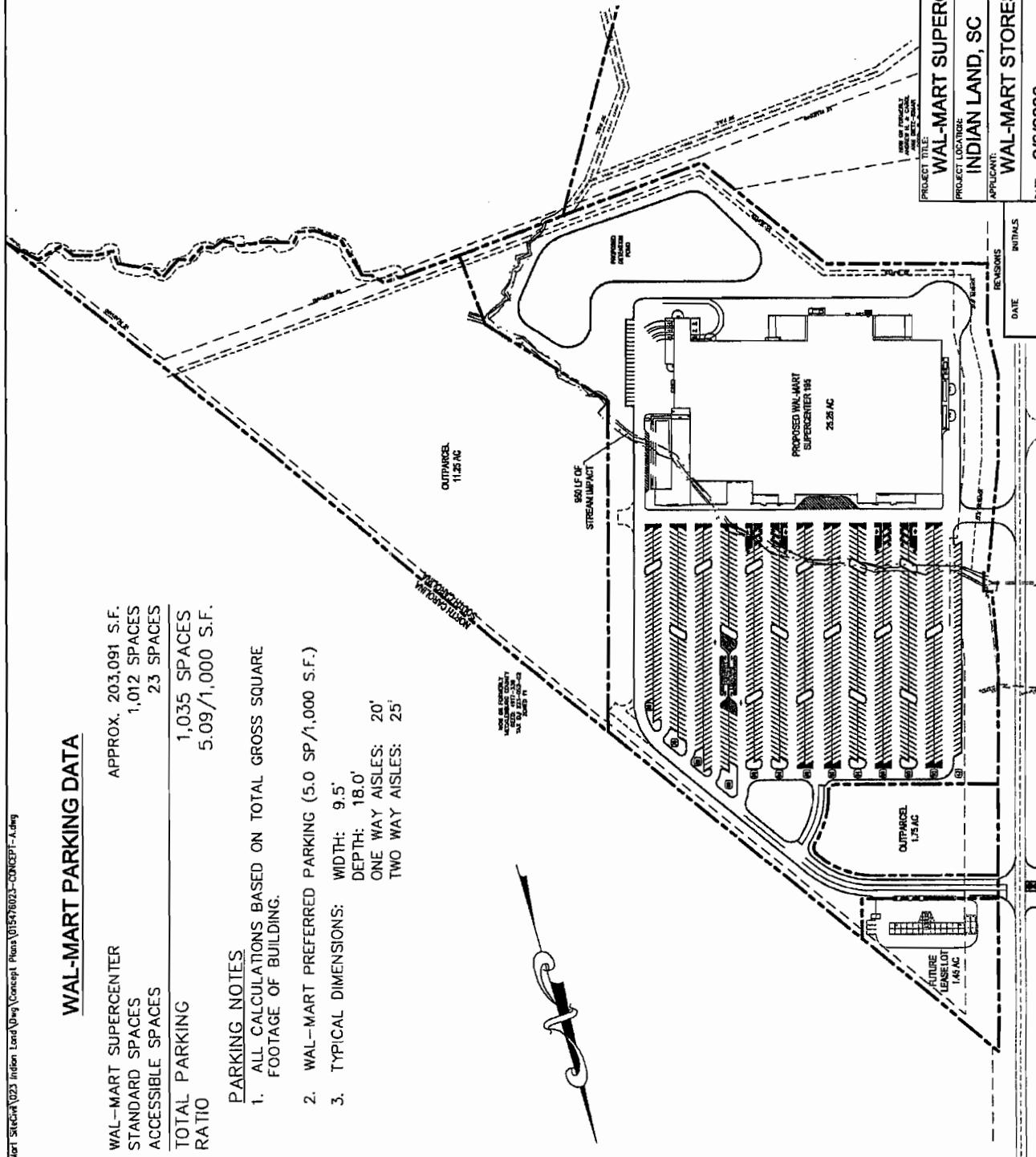
WAL-MART SUPERCENTER	APPROX. 203,091 S.F.
STANDARD SPACES	1,012 SPACES
ACCESSIBLE SPACES	23 SPACES
TOTAL PARKING	1,035 SPACES
RATIO	5.09 / 1,000 S.F.

PARKING NOTES

1. ALL CALCULATIONS BASED ON TOTAL GROSS SQUARE FOOTAGE OF BUILDING.

2. WAL-MART PREFERRED PARKING (5.0 SP/1,000 S.F.)

3. TYPICAL DIMENSIONS: WIDTH: 9.5'
DEPTH: 18.0'
ONE WAY AISLES: 20'
TWO WAY AISLES: 25'



E:\015476023-Concept Plans\015476023-CONCEPT-A.dwg

SITE PLAN
CONCEPT A



Kimley-Horn and Associates, Inc.

TER #4237-00

3
5
1
3

5

1"=300'

WAL-MART SUPERCENTER #4237-00
PROJECT TITLE:

PROJECT LOCATION: INDIAN

APPLICANT: WAL-MART STORES INC.

DATE: 2/3/2006 SCALE: 1"=300'

GOVERNMENT OF CANADA

APPLICATION #: 20065WU31 SHEET 20 OF 40

THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGN PRESENTED HEREIN, IS THE PROPERTY OF AND IS MADE SUBJECT TO THE INTEL CORPORATION INTELLECTUAL PROPERTY AGREEMENT, WHICH IS INCORPORATED BY REFERENCE AS A PART OF THIS DOCUMENT. INTEL RESERVES ALL RIGHTS NOT EXPRESSLY GRANTED.

WAL-MART PARKING DATA

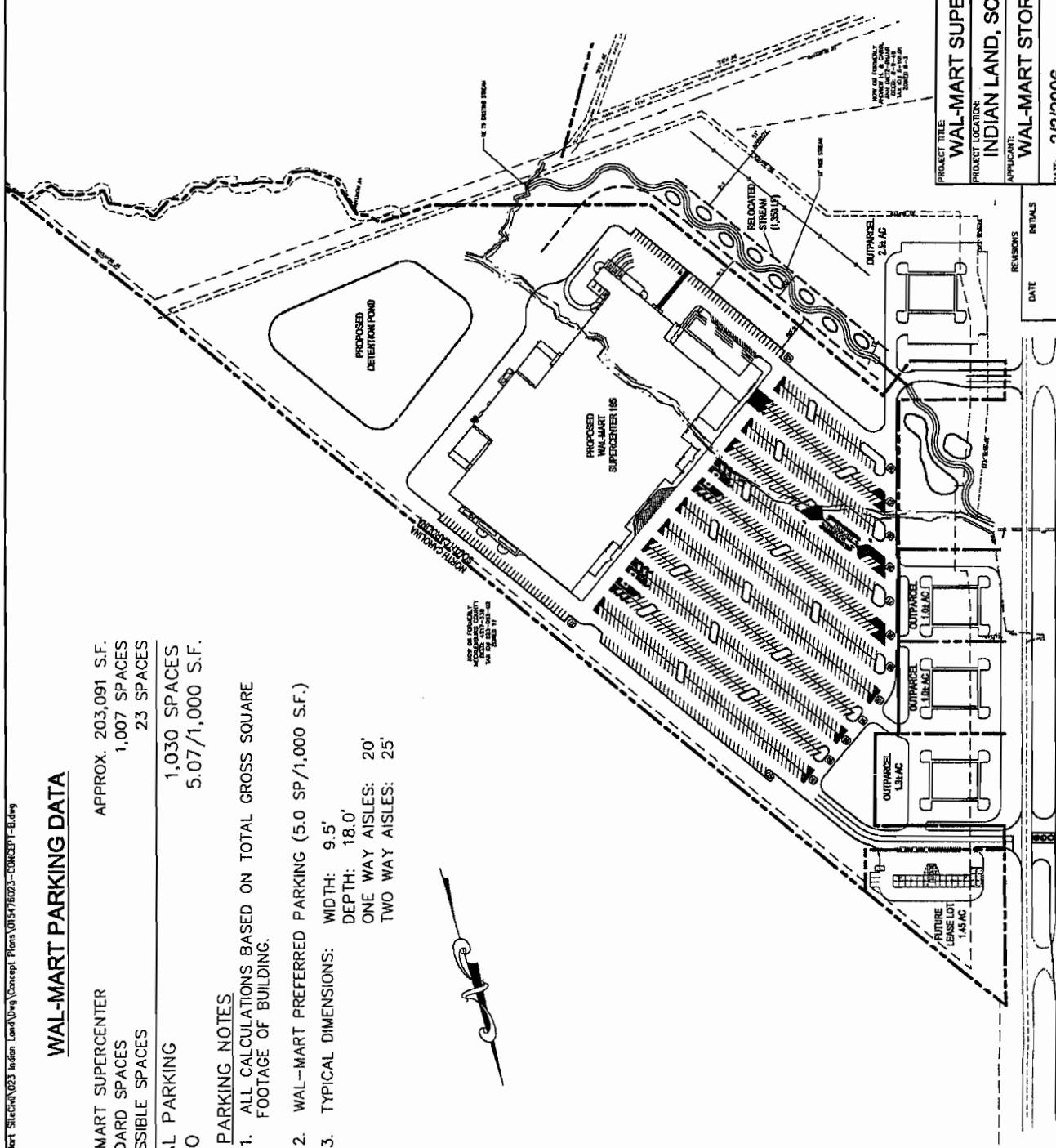
WAL-MART SUPERCENTER	APPROX. 203,091 S.F.
STANDARD SPACES	1,007 SPACES
ACCESSIBLE SPACES	23 SPACES
TOTAL PARKING	1,030 SPACES
RATIO	5.07/1,000 S.F.

PARKING NOTES

1. ALL CALCULATIONS BASED ON TOTAL GROSS SQUARE FOOTAGE OF BUILDING.

2. WAL-MART PREFERRED PARKING (5.0 SP/1,000 S.F.)

3. TYPICAL DIMENSIONS: WIDTH: 9.5'
DEPTH: 18.0'
ONE WAY AISLES: 20'
TWO WAY AISLES: 25'



SITE PLAN
CONCEPT B



Kimley-Horn and Associates, Inc.

WAL-MART SUPERCENTER #4237-00

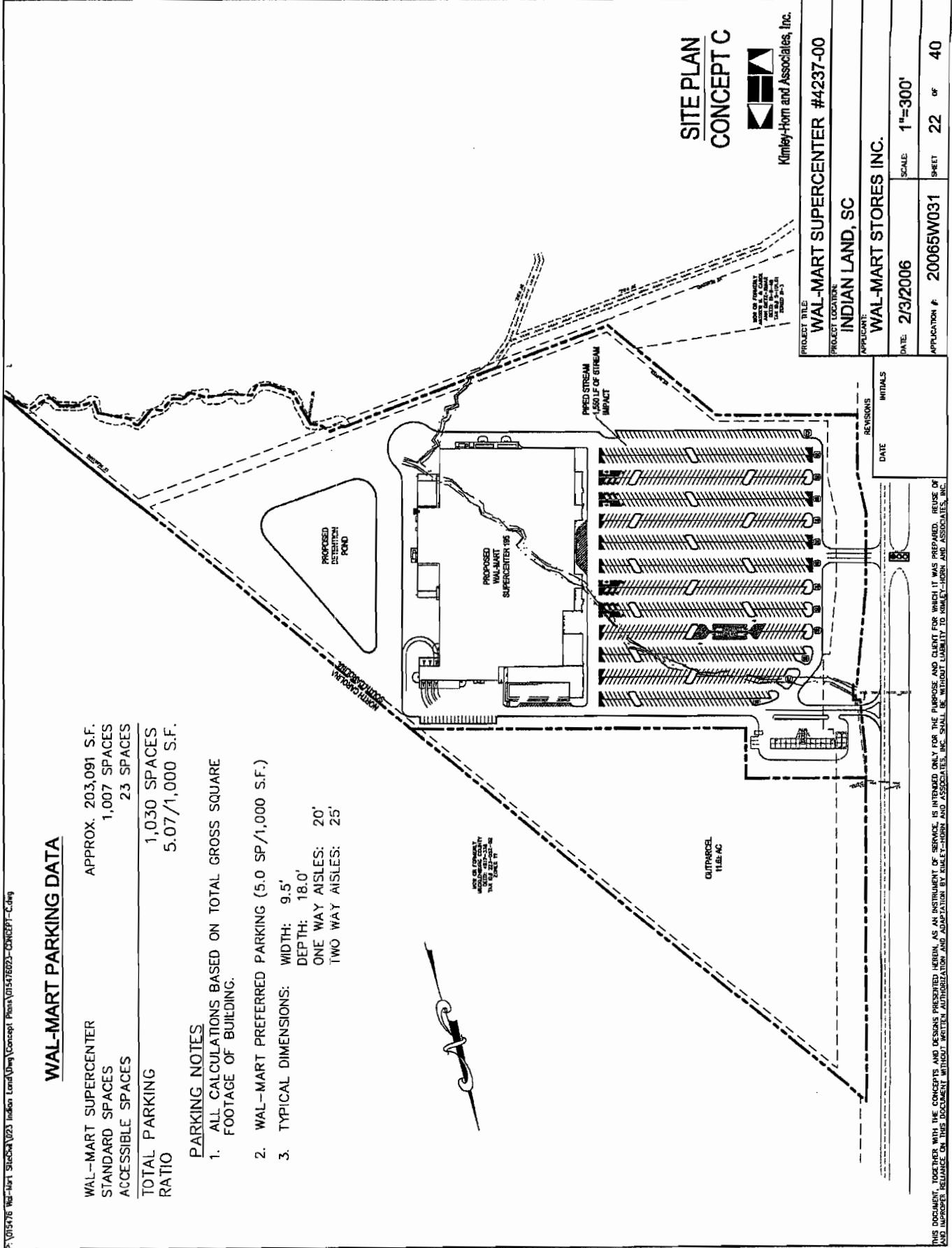
PROJECT LOCATION: **INDIANA AND CO.**

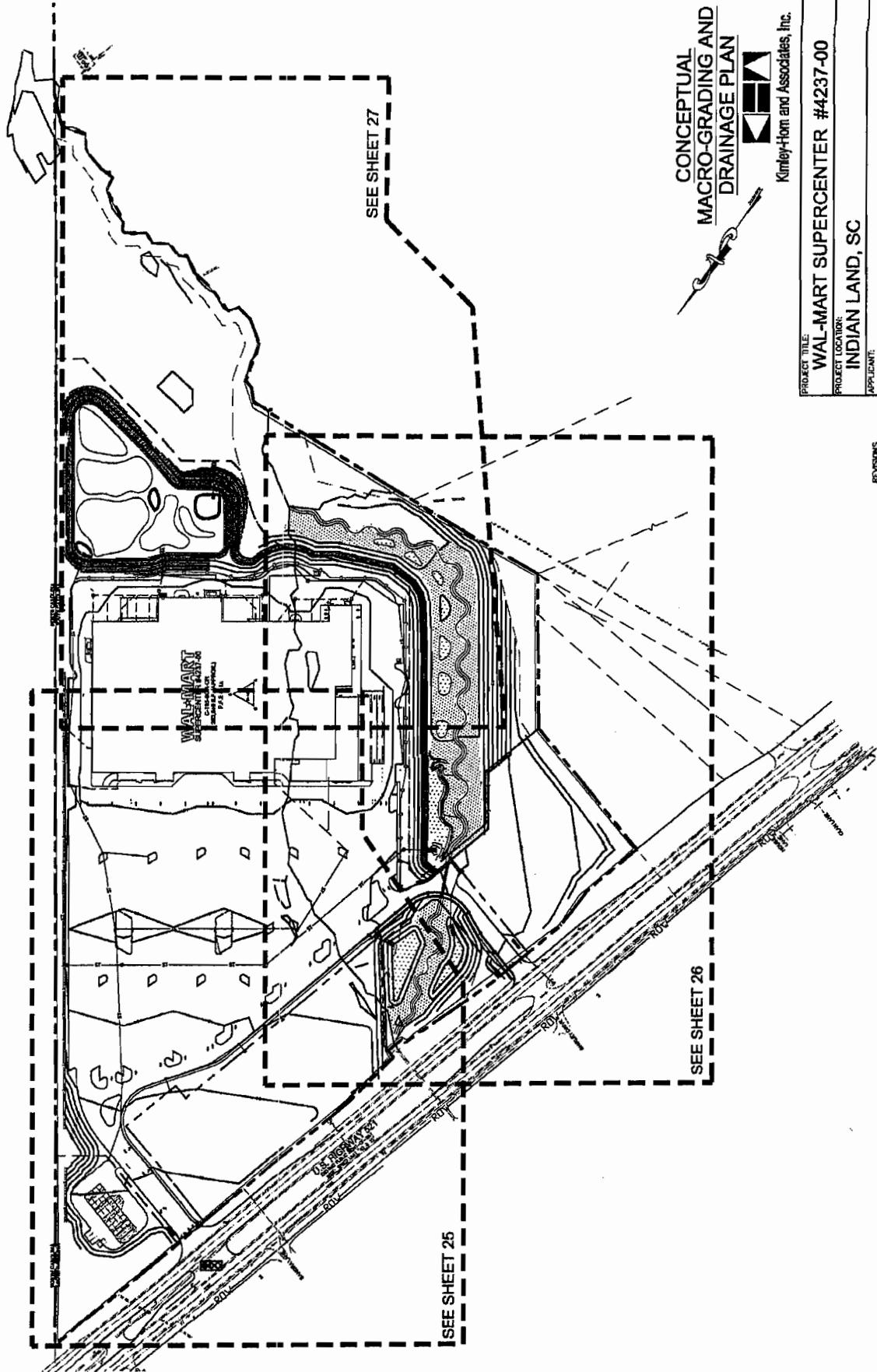
WAL-MART STORES INC.

2/2/2006

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CONCEPTUAL
MACRO-GRADING AND
DRAINAGE PLAN



Kinley-Horn and Associates, Inc.

PROJECT FILE: WAL-MART SUPERCENTER #4237-00

PROJECT LOCATION: INDIAN LAND, SC

APPLICANT:

WAL-MART STORES INC.

REVISIONS

DATE: 2/3/2006

SCALE: 1"=300'

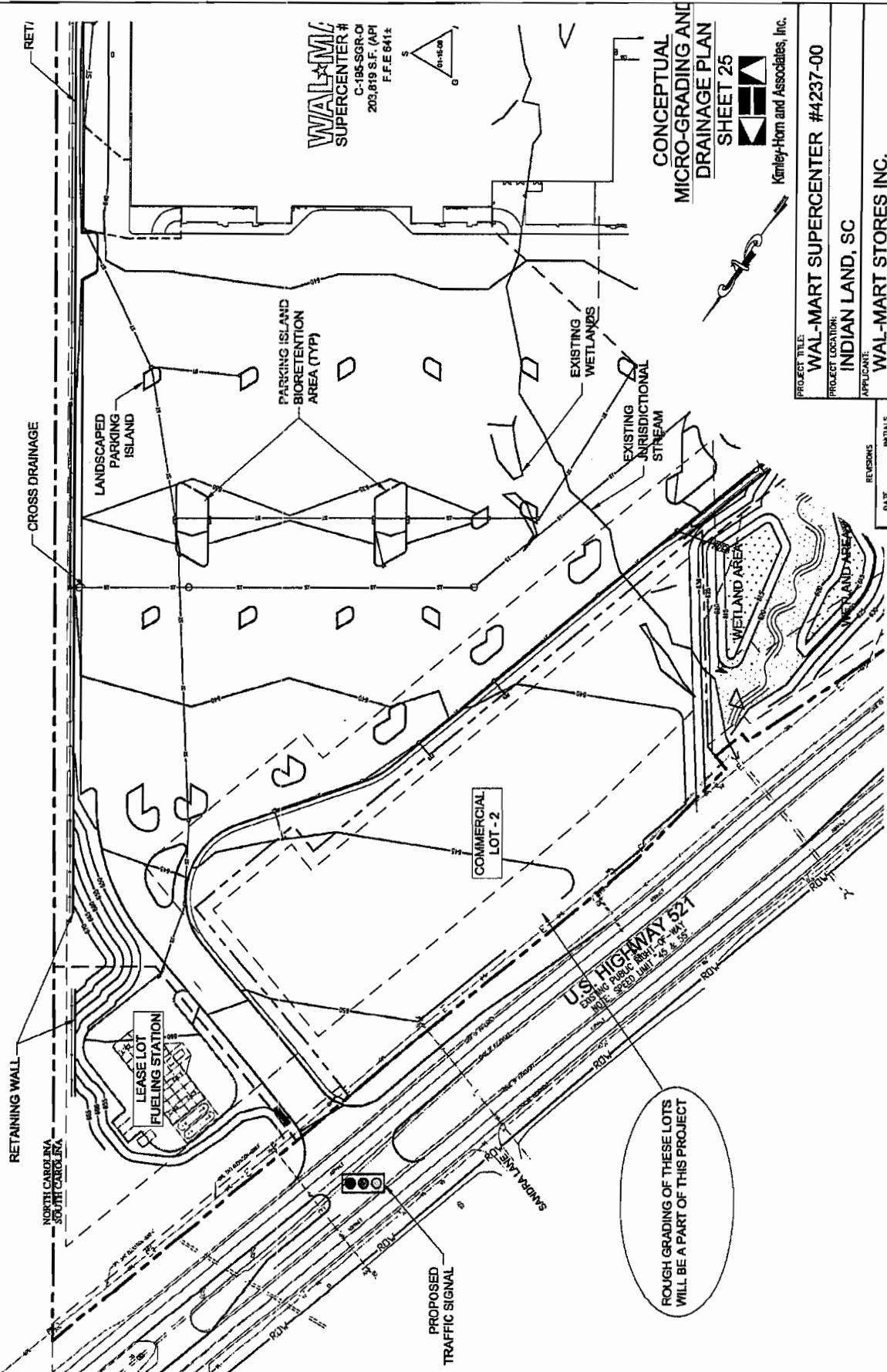
SHEET: 24 of 40

PRELIMINARY

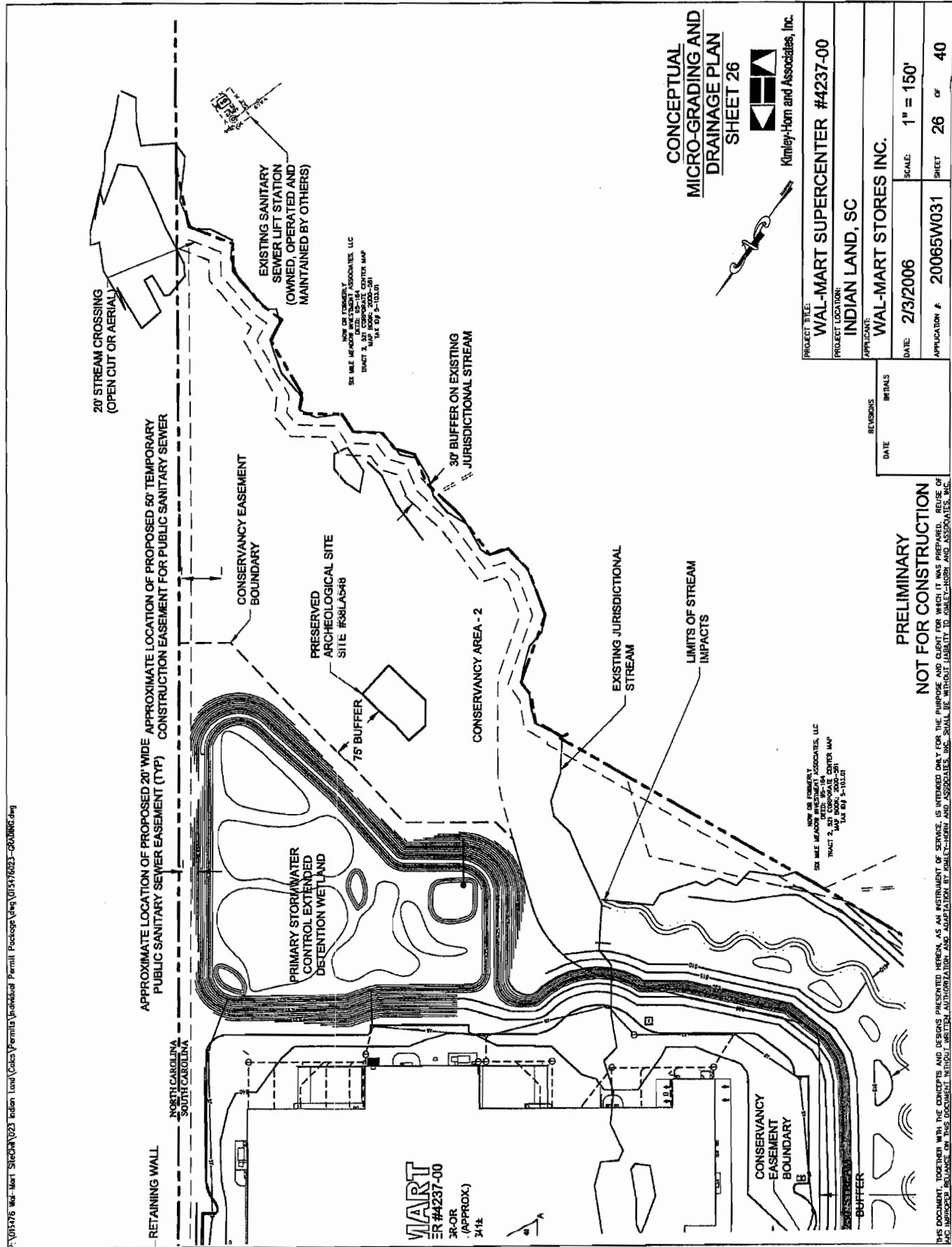
NOT FOR CONSTRUCTION

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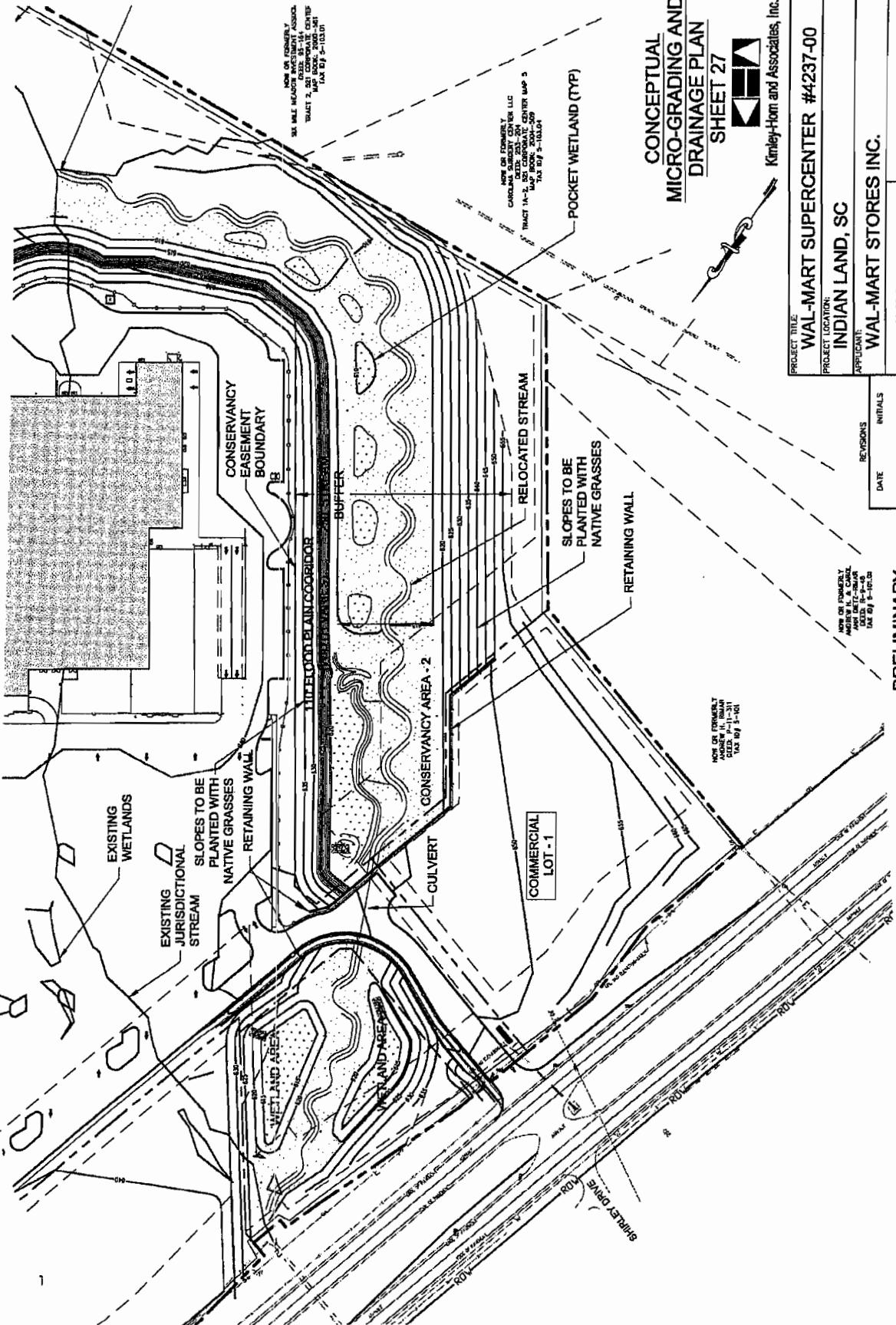
\015476 Wal-Mart Stores Inc.\023 Indian Land\Codes\Permits\Individual Permit Package\dwg\015476023-GRADING.dwg



PRELIMINARY
FOR CONSTRUCTION

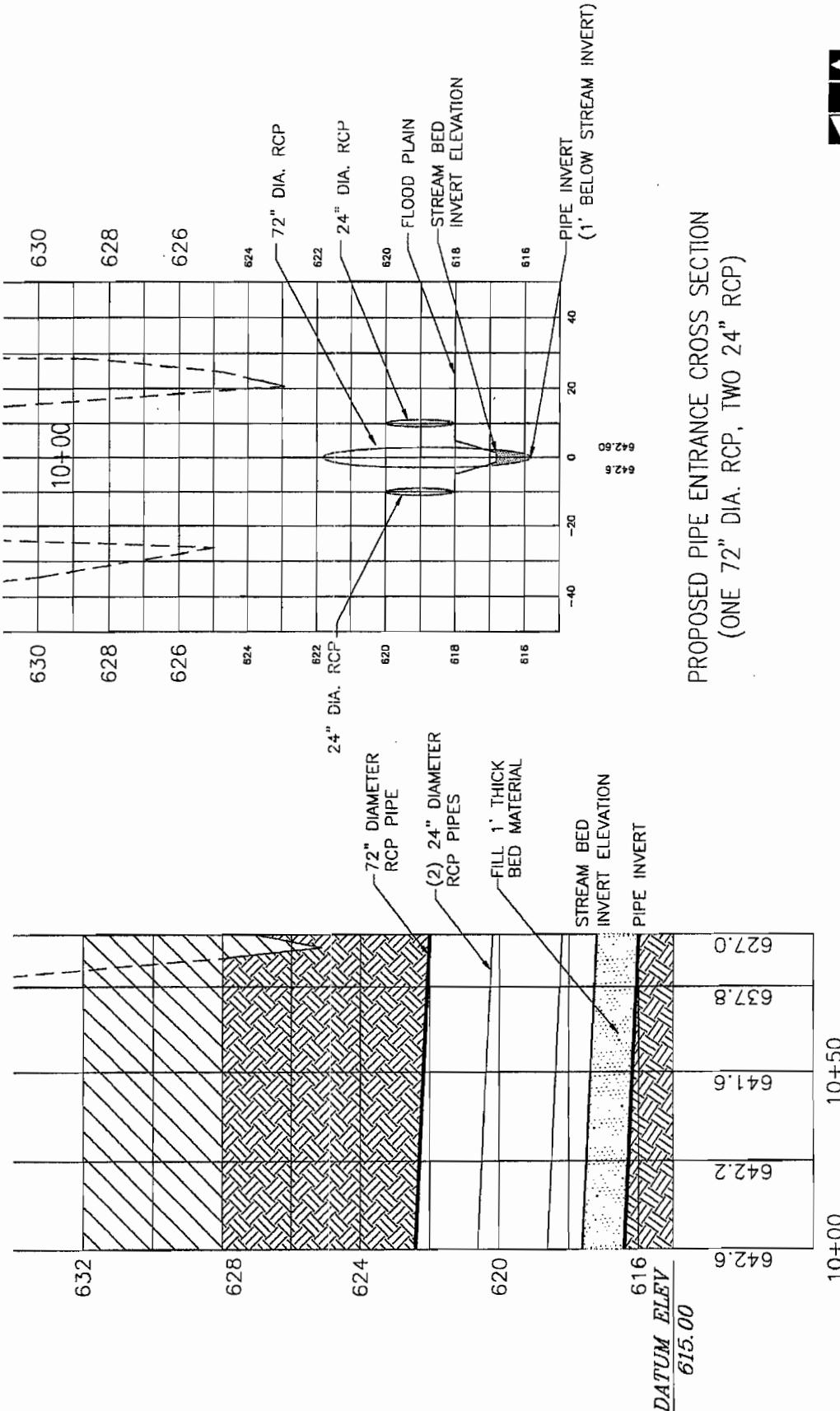


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0154-76 Wal-Mart StreetCity 023 Indian Land Cedes Permit's Individual Permit Package \015476023-GRADANG.dwg

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PROPOSED CULVERT PROFILE
AND CROSS SECTION

	
Kimley-Horn and Associates, Inc.	
PROJECT TITLE: WAL-MART SUPERCENTER #4237-00	
PROJECT LOCATION: INDIAN LAND, SC	
APPLICANT: WAL-MART STORES, INC.	
DATE:	2/3/2006
VERT. SCALE:	1" = 40'
HORIZ. SCALE:	1" = 4'
SHEET	28 of 40
APPLICATION #: 200655W031	APPLICATION #: 200655W031

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Buffer zones

Riparian Buffer - This area will have little or no maintenance except for removal of diseased or dying trees and shrubs.

Side Slope Area - Areas located on the side slopes beyond the riparian buffer area.

CONTAINERIZED VEGETATION:

- General: In order to establish vegetation in restored areas, such as beachfill beaches and slopes, containerized vegetation will be planted as shown on the plans or as required in the Special Conditions.
- Materials:

- Initial vegetation material will be provided by the contractor. The contractor is responsible for correctly installing and maintaining vegetation material.
- Vegetation material will consist of containerized trees and/or shrubs and ball & burlap trees. Container material will be in 1 gallon, and 15 gallon plastic containers.

RIPARIAN BUFFER TREES/SHRUBS**Trees**

Betula nigra (river birch)*
Carya cordiformis (bintnut hickory)
Carya ovata (shagbark hickory)
Celtis laevigata (sugarberry)
Diospyros virginiana (persimmon)
Fraxinus pennsylvanica (green ash)*
Juglans nigra (black walnut)
Liquidambar tulipifera (yellow poplar)
Nyssa sylvatica (blackgum)
Platanus occidentalis (sycamore)*
Prunus pensylvanica (black cherry)
Quercus alba (white oak)
*Quercus falcata var. *falcata** (Southern red oak)
*Quercus falcata var. *pogonophylla** (cherrybark oak)*
Quercus lyrata (overcup oak)*
Quercus michauxii (swamp chestnut oak)*
Quercus nigra (water oak)*
Quercus phellos (willow oak)*
Quercus rubra (Northern red oak)
Quercus shumardii (Shumard oak)*
Salix nigra (black willow)

Use in wetland enhancement, restoration, or creation areas*Shrubs**

Acer floridanum (sourwood sugar maple)
Aesculus sylvatica (painted buckeye)
Alnus serrulata (rag alder)*
Amelanchier arborea (serviceberry)
Aronia arbutifolia (red chokeberry)*
Astroloba trichophylla (purple parrot)
Clethra alnifolia (tannin wood)
Celtis laevigata (sugarberry)
Cephaelis occidentalis (buttonbush)*
Cornus alternifolia (alternate leaf dogwood)
Cornus amomum (silky dogwood)*
Cornus striata (swamp dogwood)*
Corylus americana (hazel-est)
Hamamelis virginiana (witch-hazel)
Hibiscus moscheutos (marsh mallow)*
Ilex decidua (deciduous holly)
Ilex verticillata (winter berry)
Ilex virginiana (Virginia willow)
Leucothoe axillaris (dogtooth)
Lindera benzoin (spicebush)
Magnolia tripetala (umbrella tree)
Morus rubra (red mulberry)
Myrta cerifera (wax myrtle)
Rhododendron periclymenoides (wild azalea)
Rhododendron viscosum (swamp laurel)*
Rosa palustris (swamp rose)*
Sambucus canadensis (elderberry)*
Stephanotrichia trifolia (bladdernut)
Symplocos tinctoria (west lac)
Viburnum dentatum (Southern arrow-wood)*
Xanthorhiza simplicissima (yellow-root)*

Use in wetland creation areas*Pocket Wetland TREES/SHRUBS**

Wetlands creation areas will be planted with above species that are designated for wetland use. These areas will be planted in the same manner as the riparian buffer areas.

3. Composition:

The composition of the riparian buffer trees/shrubs will be 70 % trees and 30 % shrubs from list above of riparian buffer trees/shrubs. At least seven different tree species with no more than 25% and not less than 5% of any one species.

At least eight different shrub species with no more than 25 % and not less than 5% of any one species.

4. Preparation:

- Planting shall take place in winter (November - March). Immediately following delivery to the project site, all plants with bare roots, if not promptly planted, shall be heeled-in to constantly moist soil or sandcast in an acceptable manner corresponding to generally accepted horticultural practices.
- While plants with bare roots are being transported to and from heating-heads, or are being distributed in planting beds, or are awaiting planting after distribution, the contractor shall protect the plants from drying out by means of wet canvas, burlap, or straw, or by other means acceptable to Engineer/Project Manager and appropriate to weather conditions and the length of time the roots will remain out of the ground.

5. Installation:

- Soil in the area of shrub and tree plantings shall be loosened to a depth of at least 3 inches.
- Bare root vegetation may be planted in hole made by a mattock, or other means approved by Engineer/Project Manager. Rootstock shall be planted in a vertical position with the root collar approximately $\frac{1}{2}$ inch below the soil surface. The planting trench or hole shall be deep and wide enough to permit the roots to spread out and down without J-rooting. The plant stem shall remain upright.
- Soil shall be replaced around the transplanted vegetation and tamped around the shrub or tree firmly to eliminate air pockets.
- The space guidelines of rooted shrubs and trees will be 10 feet between rows on 6-foot centers within rows.

Shrub and Tree Transplants

- General: Vegetation to be transplanted will be identified by the Engineer/Project Manager. Shrub and tree less than 3 inches in diameter shall be salvaged onsite in areas designated for construction, access areas, and other sites that will necessarily be disturbed.

2. Installation:

- Transplanted vegetation shall carefully be excavated with rootballs and surrounding soil remaining intact. Care shall be given not to rip limbs or bark from the shrub and tree transplants. Vegetation should be transplanted immediately, if possible. Otherwise, transplanted vegetation shall be carefully transported to designated stockpile areas and heeled-in in constantly moist soil or sandcast in an acceptable manner appropriate to weather or seasonal conditions. The solidity of the plants shall be carefully preserved.
- Installation of shrub and tree transplants shall be located in designated areas along the stream bank above bankfull elevation or in floodplain restoration areas as directed by Engineer/Project Manager. Soil in the area of vegetation transplants shall be loosened to a depth of at least 1 foot. This is only necessary on compacted soil. Transplants shall be replanted to the same depth as they were originally growing. The planting trench or hole shall be deep and wide enough to permit the roots to spread out and down without J-rooting. The plant stem shall remain upright.
- Soil shall be replaced around the transplanted vegetation and tamped around the shrub or tree firmly to eliminate air pockets.
- Spacing of vegetation transplants will be determined onsite by the Engineer/Project Manager.

PERMANENT SEEDING SPECIFICATIONS**RIPARIAN BUFFER AREA**

Permanent seeding will be used in combination with woody plantings on the up-slope side of the riparian areas and down to the bankfull elevation. Permanent seeding will occur in conjunction with temporary seeding where applicable. This mixture will also be used in any terrestrial areas (not inundated) riparian area that has been disturbed by construction, is designated as wetland and/or riparian enhancement, or as directed by Engineer/Project Manager. This mixture shall be planted in late fall in combination with the temporary seeding operation and woody plant installations. Seeding should be done evenly over the area using a mechanical or hand seeder. A drag should be used to cover the seed with no more than $\frac{1}{4}$ inch of soils. Where a drag cannot safely be utilized, the seed should be covered by hand raking.

Seedbed Preparation

On sites where equipment can be operated safely, the seedbed shall be adequately loosened. Disking may be needed in areas where soil is compacted. Stump banks may require roughening, either by hand scuffing or by equipment, depending on site conditions. Engineer/Project Manager will determine condition needs onsite. If seeding is done immediately following construction, seedbed preparation may not be required except on compacted, polished or freshly cut areas. If permanent seeding is performed in conjunction with temporary seeding, seedbed preparation only needs to be executed once.

Seeding

A riparian seed mix at the rate of $\frac{1}{4}$ lb per 1,000 sq ft or 10 lbs per acre shall be used for seeding. The following table lists herbaceous, permanent seed mixture labeled "riparian seed mix".

COMMON NAME	SCIENTIFIC NAME	%
RICE CUT GRASS	LEERSIA ORYZOIDES	5
SOFT RUSH	JUNCUS EFFUSUS	10
DEERTONGUE	PANICUM CLANDESTINUM	20
SWITCHGRASS	PANICUM VIRGANTUM	50
IRONWEED	VERONICA NOVAEORANGENSIS	5
SWAMP SUNFLOWER	HELIANTHUS ANGUSTIFOLIUS	5
JOE PYE WEED	EUPATORIUM PISTULOSUM	5

1. Recommended Native Plant Species for Stream Restoration in North Carolina, Karen Hall, NC Stream Restoration Institute NCSU January 2001

Common Name/Scientific Name %Rice Cut Grass/*Leersia oryzoides* 5% Rush/*Juncus effusus* 10% Deertongue/*Panicum clandestinum* 20% Switchgrass/*Panicum virgatum* 50% Ironweed/*Veronica novaeorangensis* 5% Swamp Sunflower/*Helianthus angustifolius* 5% Joe Pye Weeds/*Eupatorium fistulosum* 5%

SIDE SLOPE AREA

Side slope areas will be planted in native herbaceous vegetation. Side slopes will be planted on the slopes above the riparian buffer. Containerized vegetation is not to be planted on the side slope areas.

Seeds:

Festuca virginicus (switchgrass)
Tripsacum dactyloides (Eastern grass grass)
Andropogon gerardii (big blue grass)
Sorghastrum nutans (indian grass)

Apply 10 bushels using same seed bed preparation and seeding methods as the permanent seed mix. Use three of the four species with no more than 40 % of any one of the three selected species.

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DATE:	12/19/05	SCALE: NTS
APPLICATION #: 20065W031		SHEET 29 OF 40



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LIVE STAKES

Live stakes are to be installed on exposed stream banks to bankfull elevation of the designed stream. The stakes are to be installed at a density of 2 to 4 live stakes per square yard. The species to be used for live staking are listed in the following Species List. The Supervising Engineer reserves the right to reject any "stakes" that do not meet the above mentioned criteria. The Contractor shall replace rejected work at no additional cost to the owner.

Live stakes are to be dormant (cut fall or winter), and gathered locally or purchased from a commercial supplier.

COLLECTION/PREPURATION

Stakes must be freshly cut with side branches removed, but with bark in tact (ensure that the bark is not stripped during the cutting, preparation, or installation of the stakes).

Cuttings are to be collected using a saw (not an ax).

One end must be cut at an angle for insertion into the soil, and the other be cut square for tamping.

Cuttings must be kept fresh and moist prior to installation.

Cuttings must be prepared from 0.5 to 2-inch diameter stock and approximately 2 to 3 feet in length.

INSTALLATION

Install stakes the same day the are prepared.

Start the installation nearest to the stream and work up the bank/bankfull.

Cuttings must be installed right side up with the buds pointing upward.

Cuttings should be tamped into the ground at right angles to the slope and angled downstream.

The top of the stake is to be cut off for a maximum of one-third of their length.

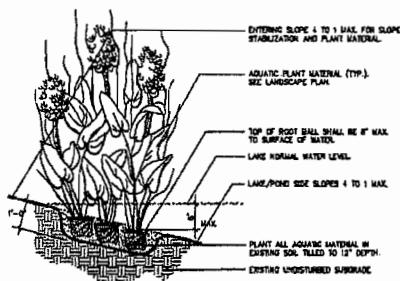
Cuttings that split or become "minitransposed" must be replaced.

Stakes are to be spaced such that there are 7 to 8 stakes per square yard.

Stakes should be installed in a random configuration to prevent gullies and promote a more natural effect in the re-vegetated area.

UNRESTRICTED WOODY BUFFER

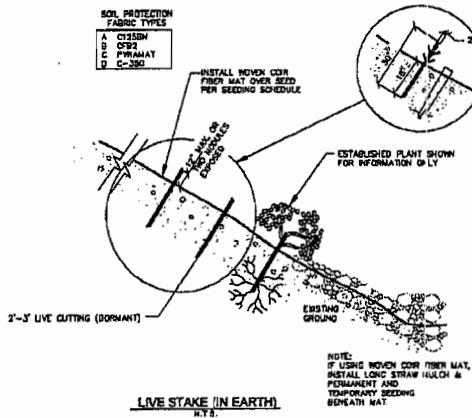
Live Stakes	Percent Compositae
Cornus amomum (silky dogwood)	25
Tsuga heterophylla (yellowwood)	0-25
Kalmia latifolia (black hawthorn)	50
Sambucus canadensis (elderberry)	0-25
Vaccinium dentatum (arrow wood)	0-25

**OPEN WATER WETLAND AREA PLANT DETAIL**

N.T.S.

OPEN WATER WETLAND AREA PLANT SCHEDULE

HERBACEOUS WETLAND PLANT LIST			SPECIFICATIONS					
SYMBOL	BOTANICAL NAME	COMMON NAME	WATER DEPTH	HEIGHT	SPREAD	ROOT	SPACING	OTHER
CA	CLÆTHRA ALPINOLIA	SWEET PEPPERBUSH	0"	30"-36"	30"-36"	CONT	4' O.C.	3 CANES OR MORE OVER 2'
VD	VERBENA DENTATUM	VERBENA	0"	12"-18"	12"-18"	CONT	2' O.C.	
TD	THELLO CLÆTHRA	THREE BERRY	0"	3'-4'	3'-4'	CONT	2' O.C.	
AV	ANDROPOGON VIRGINICUS	BRAMBLE RUSH	0"	12"-18"	12"-18"	1 GAL	30"	
CS	CAREX UMBRIPINA	HORN SEDGE	0"	12"-18"	12"-18"	1 GAL	30"	
CO	CERATANTHUS OCCIDENTALIS	BUTTON RUSH	0"	12"-18"	12"-18"	1 GAL	30"	
AC	ACMISIOPSIS HIRSUTISSIMA	SPOTTED KIDNEYWEED	0"-6"	12"-18"	12"-18"	1 GAL	30"	
BL	BUCHNERIA MONTEVIDENSIS	BUCHNERIA	0"-6"	12"-18"	12"-18"	1 GAL	30"	
IV	IRIS VIRGINICA	BLUE FLAG IRIS	0"-6"	12"-18"	12"-18"	1 GAL	30"	
JO	JUNCUS EFFUSUS	SOFT RUSH	0"-6"	12"-18"	12"-18"	1 GAL	30"	
SA	SAGITTARIA lancifolia	ARROWHEAD	0"-6"	12"-18"	12"-18"	2 GAL	30"	
BY	BYSSA DIAULIA	DEERFOOT BULRUSH	0"-6"	12"-18"	12"-18"	1 GAL	30"	
PC	PONTEDERIA CORDATA	PICKERELWEED	0"-6"	12"-18"	12"-18"	1 GAL	30"	
SC	SAGITTARIA LATIFOLIA	DUCK POTATO	0"-6"	12"-18"	12"-18"	1 GAL	30"	
SD	SALVIA DILECTA	LIZARD TAIL	0"-12"	12"-18"	12"-18"	2 GAL	30"	

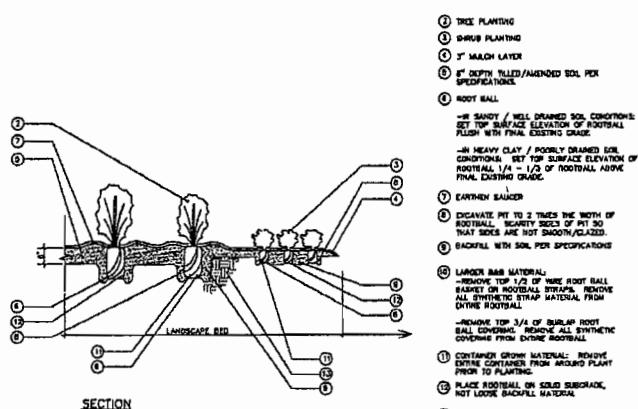
**LIVE STAKE (IN EARTH)**

N.T.S.

TEMPORARY SEEDING FOR LATE WINTER AND EARLY SPRING

Seeding mixture	Rate (lb./acre)
Species Rye (Secale cereale)	120
Soil amendments Follow recommendations of soil tests or apply 2,000 lb./acre ground agricultural limestone and 700 lb./acre 10-10-10 fertilizer.	
Match Apply 4,000 lb./acre straw. Anchor straw by netting, or a match anchor, i.e., a disk with stones set nearly straight can be used as a match anchoring tool.	
Maintenance Re-seed if growth is not fully adequate. Reseed, re-till and match immediately following erosion or other damage.	

Note: Ground cover shall be established on exposed slopes within 30 working days following completion of any phase of grading.

**TYPICAL LANDSCAPE BED PLANTING DETAIL (CONTAINERIZED SHRUBS & TREES)**

NOT TO SCALE

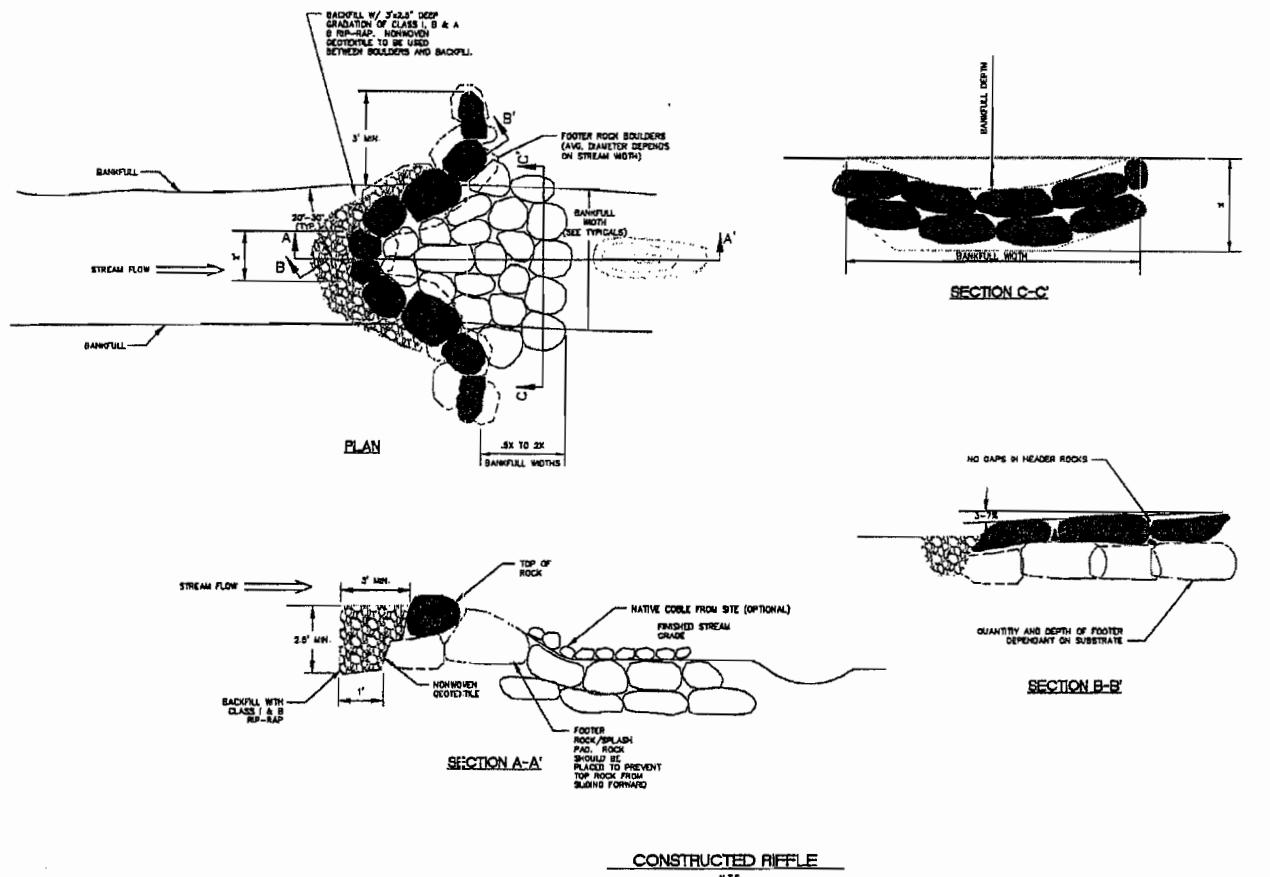
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APPLICANT:	WAL-MART STORES, INC	
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APPLICATION #:	20065W031	SHEET 30 OF 40



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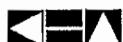
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CONSTRUCTED RIFFLE
N.T.S.

CONCEPTUAL RELOCATION
STREAM DETAILS

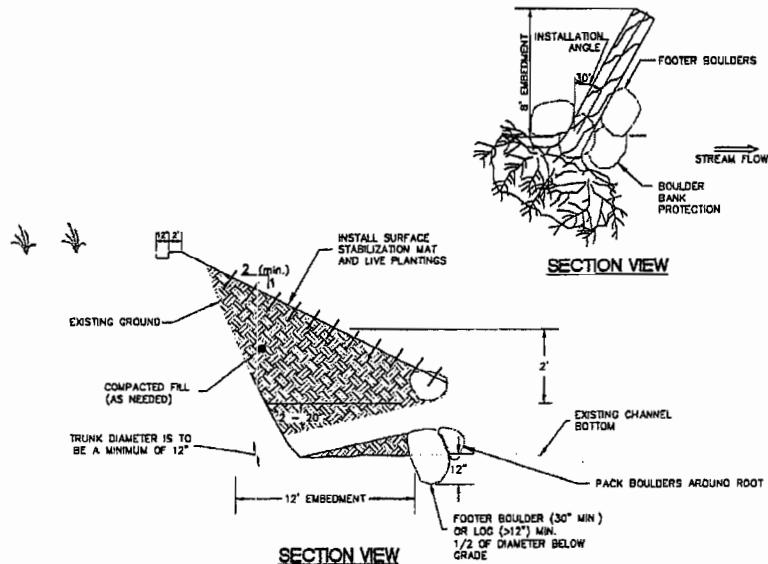
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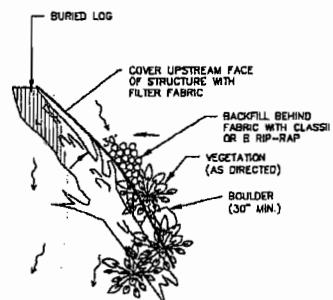
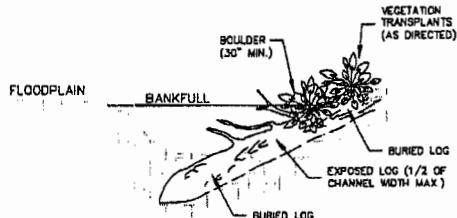
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REVISIONS	DATE	INITIALS
	2/3/2006	

**ROOT WAD INSTALLATION**

NTS

**PLAN VIEW****SECTION VIEW**

LOG DIAMETER 15"+

LOG VANE STRUCTURE

NTS



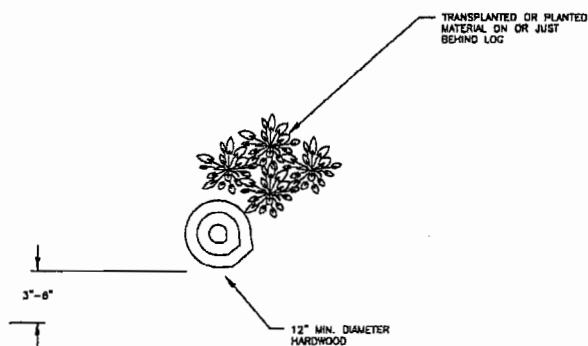
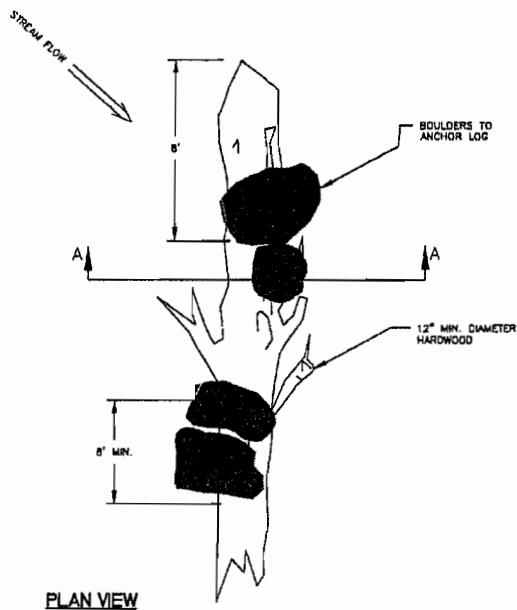
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REVISIONS	
DATE	INITIALS



"LUNKER" LOG STRUCTURE ANCHORING

NTS

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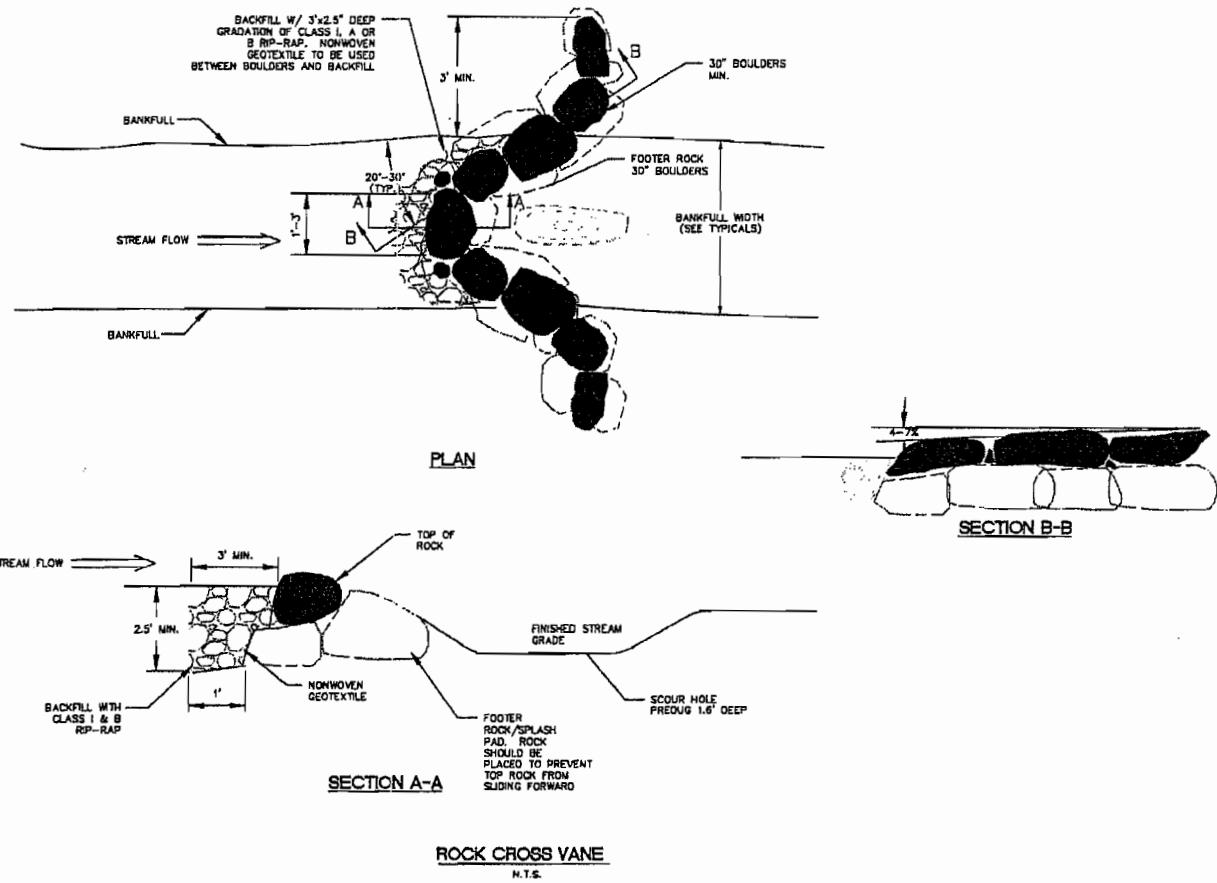
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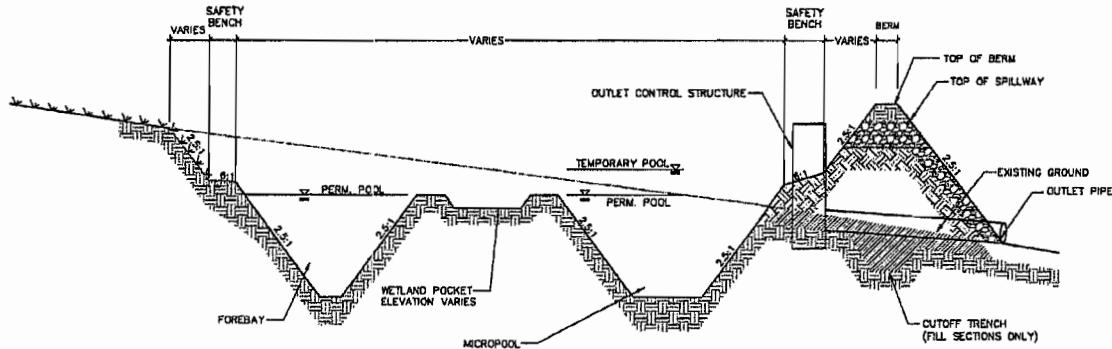
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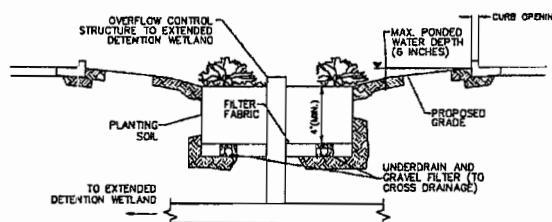
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TYPICAL SECTION

EXTENDED DETENTION STORMWATER WETLAND
N.T.S.

TYPICAL BIORETENTION SECTION

NOT TO SCALE

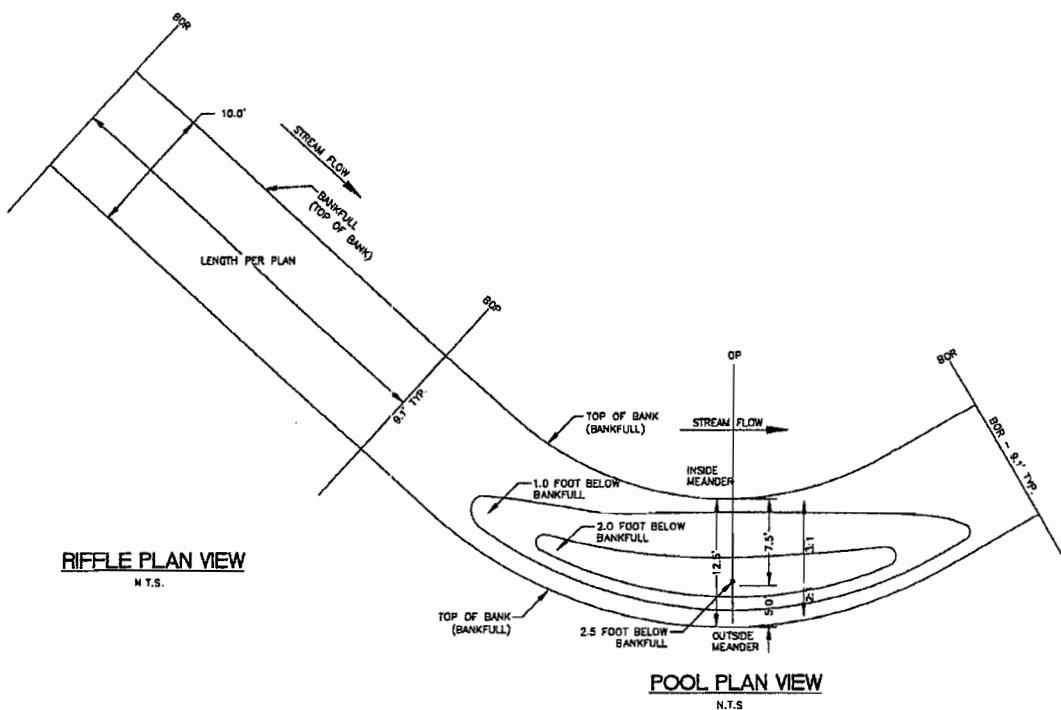
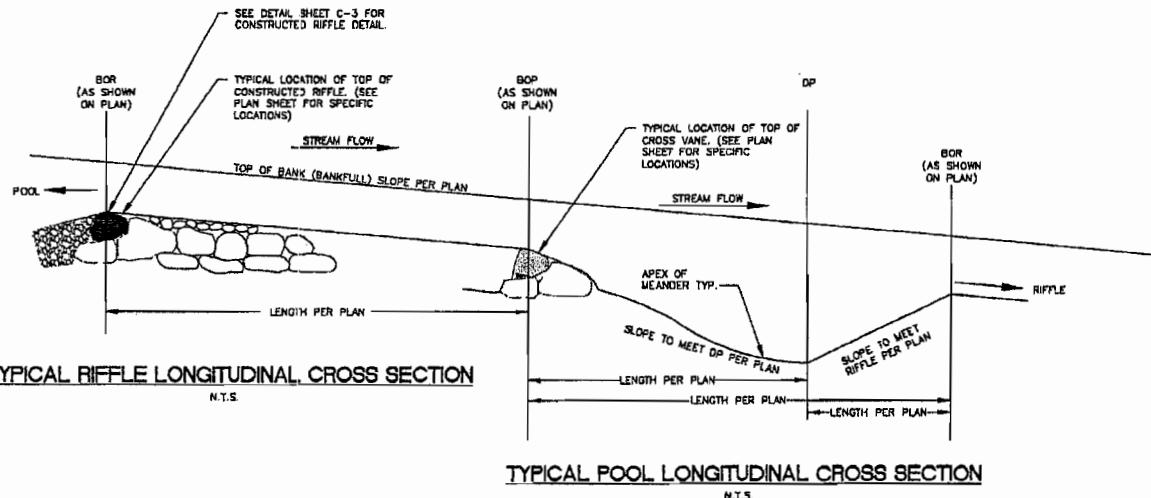
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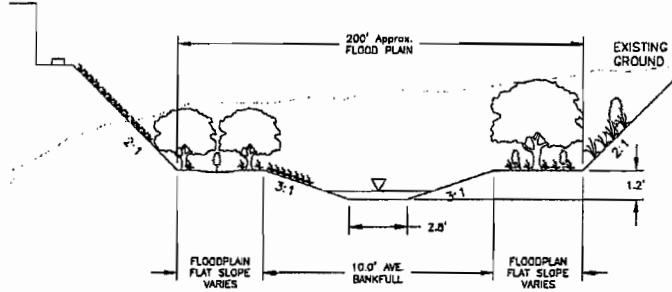
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APPLICATION #:	20065W031	SHEET 36 OF 40



Kimley-Horn and Associates, Inc.

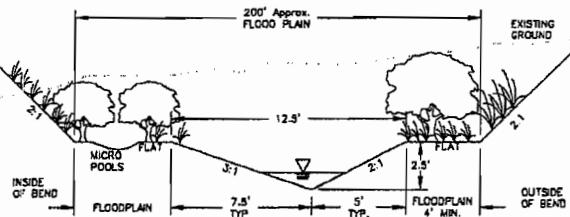
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REVISIONS	
DATE	INITIALS
2/3/2006	



TYPICAL RIFFLE SECTION
N.T.S.

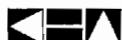
- REPLACE TOP SOIL ONTO EXCAVATED FLOODPLAIN
- CREATE MICRO POOLS ON FLOODPLAIN
- PLANT FLOODPLAIN WITH NATIVE TREES (BALL AND BURLAP), SHRUBS (CONTAINERIZED), AND GRASSES



POOL CROSS-SECTION
N.T.S.

CONCEPTUAL RELOCATION
STREAM DETAILS

PROJECT TITLE: WAL-MART SUPERCENTER #4237-00	
PROJECT LOCATION: INDIAN LAND, SC	
APPLICANT: WAL-MART STORES, INC	
DATE:	2/3/2006
SCALE:	NTS
APPLICATION #:	20065W031
SHEET	37 OF 40

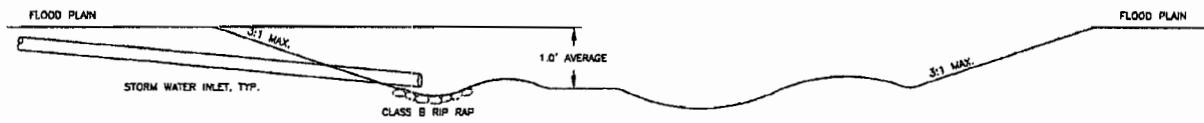


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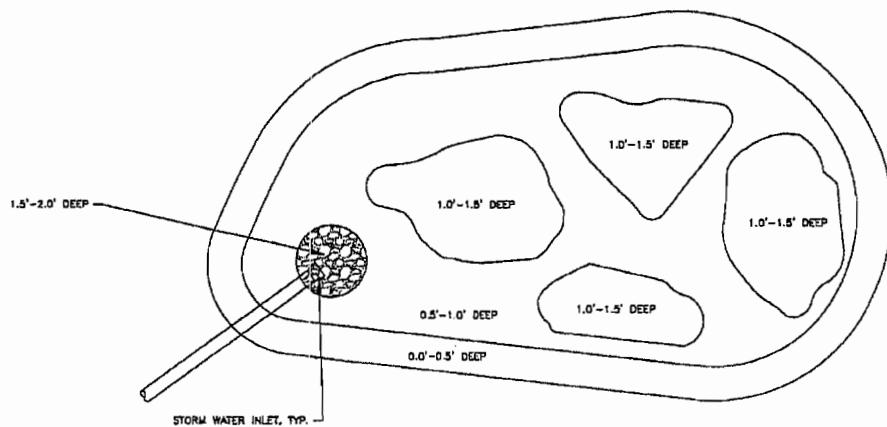
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REVISIONS	DATE	INITIALS
	2/3/2006	

VARY BOTTOM 0.5' - 1.5'

CROSS SECTION VIEW TYPICAL

N.T.S.

PLAN VIEW TYPICAL

N.T.S.

* SEE VEGETATION DETAIL FOR PLANTINGS.

CONCEPTUAL RELOCATION
STREAM DETAILS

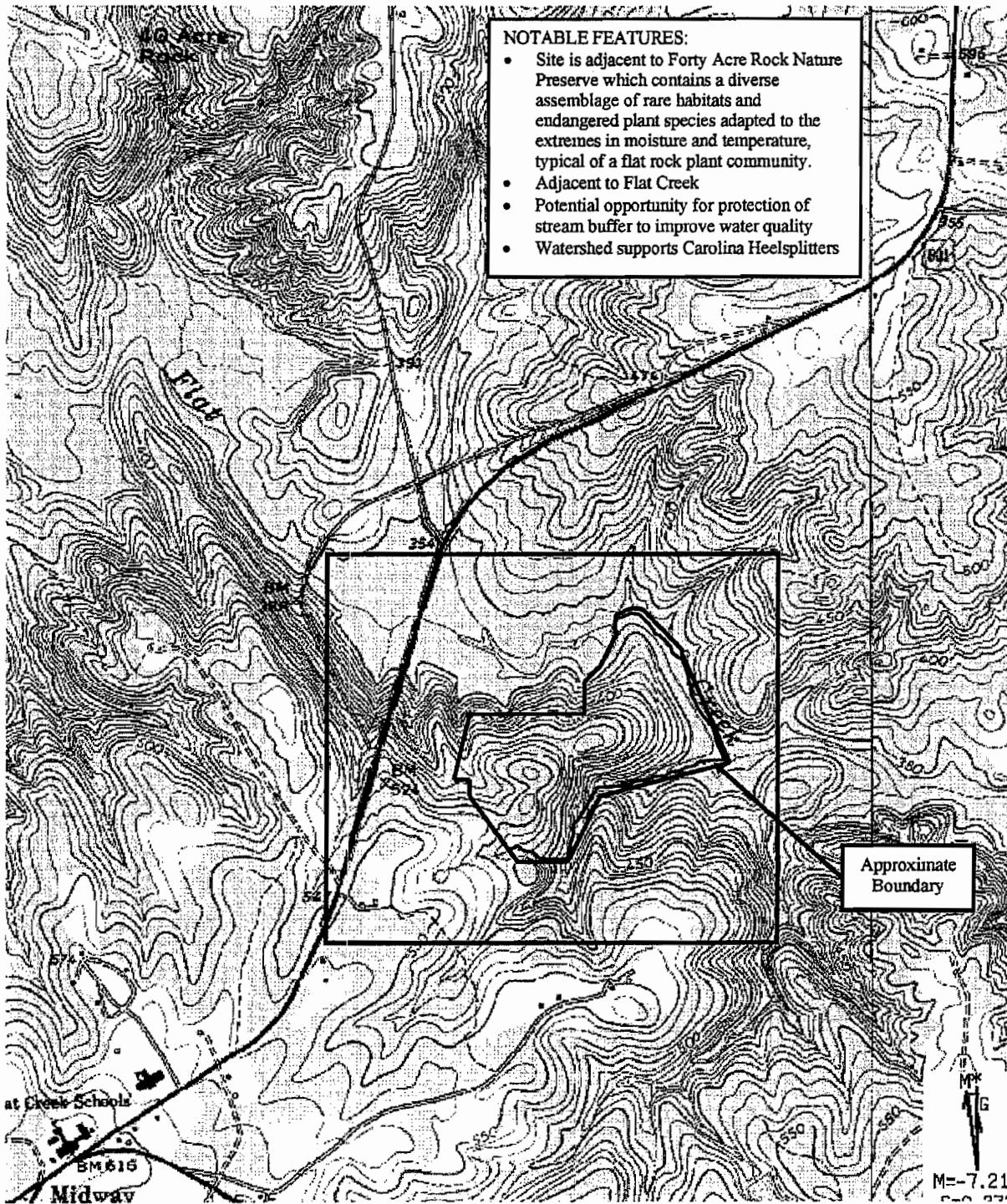
PROJECT TITLE:	
WAL-MART SUPERCENTER #4237-00	
PROJECT LOCATION:	
INDIAN LAND, SC	
APPLICANT:	WAL-MART STORES, INC
DATE:	2/3/2006
SCALE:	NTS
APPLICATION #:	20065W031
SHEET	38 OF 40



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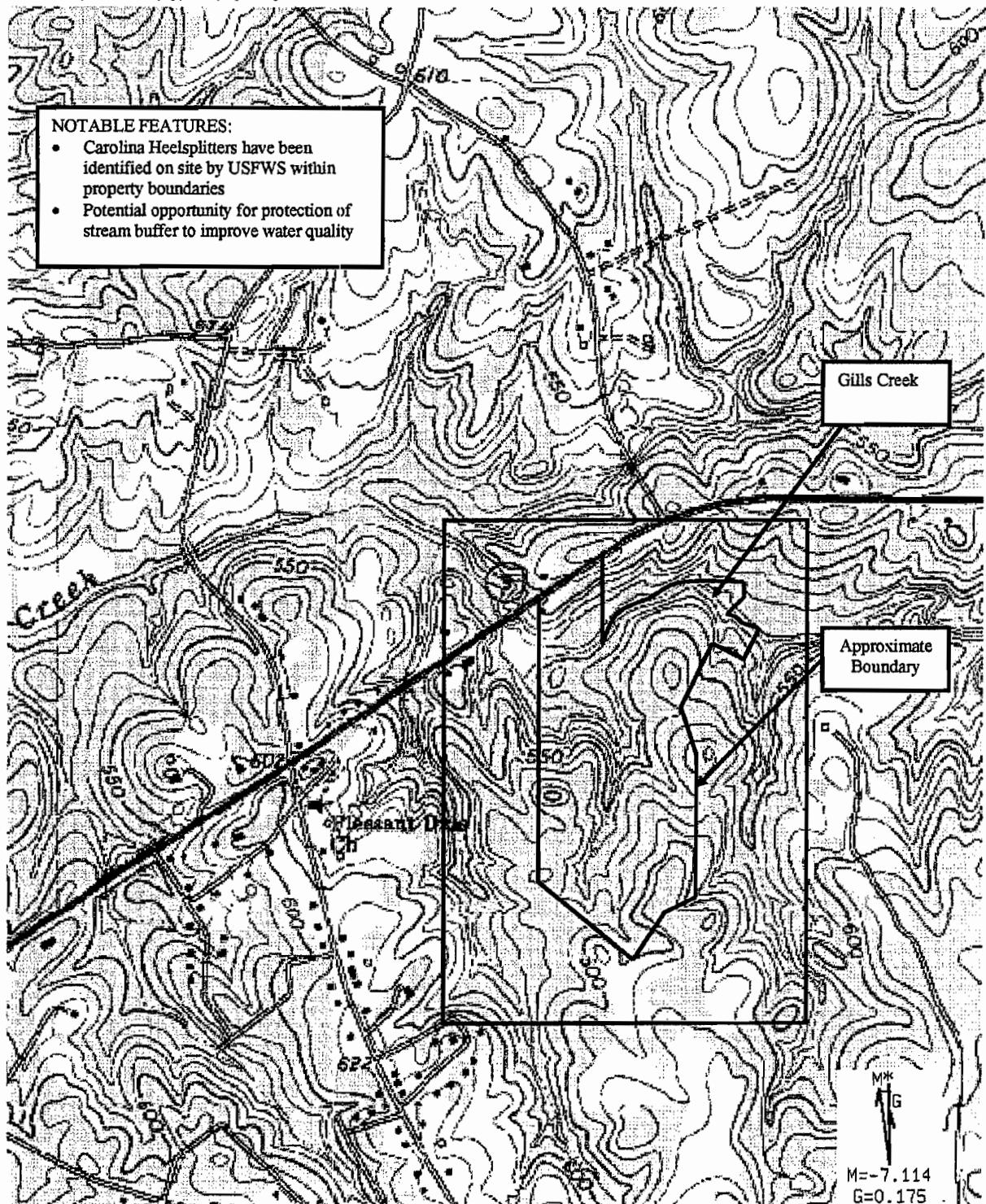


FLAT CREEK 88 ACRES



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PROJECT TITLE:		WAL-MART SUPERCENTER #4237-00	
PROJECT LOCATION:		INDIAN LAND, SC	
APPLICANT:		WAL-MART STORES INC.	
DATE:	2/3/2006	SCALE:	N.T.S.
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GILLS CREEK 48 ACRES



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